2020 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

ALABAMA POWER COMPANY
PLANT GADSDEN
ASH POND

February 1, 2021

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering

CERTIFICATION STATEMENT

This *Semi-Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Gadsden 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 257) and the Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document groundwater monitoring activities and results from the August 2020 semi-annual monitoring event at the Plant Gadsden Ash Pond and satisfies the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). This report also satisfies state semi-annual reporting requirements under ADEM Admin. Code r. 335-13-15-.06(5)(g). Semi-annual monitoring and associated reporting for the Ash Pond is performed in accordance with the monitoring requirements found in 40 CFR § 257.90 through § 257.95 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(6).

The CCR unit began the monitoring period in Assessment Monitoring pursuant to 40 CFR § 257.95 and ADEM Admin. Code r. 335-13-15-.06(6). Statistically significant increases (SSI) of Appendix III constituents over background were identified in the results of the first detection monitoring event (April 17, 2019) and assessment monitoring was initiated on July 16, 2019. Statistically significant levels (SSL) of Appendix IV parameters above groundwater protection standards (GWPS) were identified while in assessment monitoring. Consequently, an assessment of corrective measures (ACM) was initiated on April 11, 2020 and completed on July 10, 2020 according to the requirements of § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order No. 19-104-GW. The ACM was subsequently submitted to ADEM and posted to the CCR compliance web site.

The following summarize 2020 groundwater monitoring activities the Plant Gadsden Ash Pond:

- Submitted the revised Groundwater Monitoring Plan on April 15, 2020, responded to ADEM comments, and resubmitted the Groundwater Monitoring Plan on August 24, 2020.
- Pursuant to Part C of Administrative Order 19-104-GW, a Groundwater Investigation Report for the Plant Gadsden Ash Pond was submitted to ADEM on May 22, 2020. This report recommended a second phase of groundwater investigation to complete delineation of groundwater impacts.
- Completed and submitted the ACM report to ADEM on July 10, 2020 and posted to the CCR compliance web site.
- Submitted the Annual Groundwater Monitoring and Corrective Action Report on July 31, 2020 documenting semi-annual sampling events conducted in August 2019 and April 2020.

- Conducted semi-annual monitoring activities between August 24, 2020 and August 26, 2020 that included the Phase I delineation wells.
- SSLs of Appendix IV parameters (arsenic and lithium) were identified above GWPS during the first semi-annual monitoring period.
- Pursuant to Part F of the Administrative Order, submitted the first Semi-Annual Progress Report for Plant Gadsden on November 18, 2020 that included the Phase II Groundwater Delineation Plan Scope of Work.
- Conducted geochemical analysis of soil samples collected from the Site for the purposes of (1) gaining insight into whether the natural soils near the Site could be releasing constituents of interest (COI) i.e., arsenic and lithium, to groundwater and (2) evaluating monitored natural attenuation (MNA) as one potential groundwater remediation technology for the Site as described in the ACM Report submitted on July 10, 2020. Laboratory work was conducted to help identify probable attenuating mechanisms and gain a sense of permanence for the mechanisms.
- Submitted the Semi-Annual Remedy Selection and Design Progress Report to The Department in December 2020.
- Pursuant to 40 CFR 257.90(e)(6), a table titled Monitoring Period Summary has been prepared to describe the status of groundwater monitoring and corrective action during the monitoring period for this report.

The CCR unit concluded the monitoring period in assessment monitoring, and APC is evaluating the potential groundwater remedies identified in the ACM report submitted to ADEM in July 2020. The following monitoring-related activities are planned for the CCR unit:

- Complete the geochemical analysis of soil samples laboratory work:
    - Analysis of precipitate samples by X-ray diffraction (XRD) to determine which attenuating mineral phases are present.
    - Scanning electron microscopy (SEM) to directly observe attenuating mineral phases by their distinctive morphology (shape) and to determine attenuating mechanisms by spectral analysis (e.g., incorporation of arsenic into sulfide mineral phases).
    - Selective sequential extraction (SSE) to determine association of arsenic and lithium with attenuating phases, and the relative strength and stability of the attenuation mechanisms.
    - Cation exchange capacity (CEC) to assess ion exchange as an attenuation mechanism, which is particularly relevant to lithium.

  - Perform preliminary geochemical modeling using the U.S. Geological Survey (USGS) computer program PHREEQC with the WATEQ4F thermodynamic database to predict which attenuating mechanisms should be occurring.

- Perform a conceptual-level feasibility study of potentially viable corrective actions:

  - Show where the viable corrective actions could be applied on Site maps and on geologic sections.
  - Compare site-specific corrective actions to the evaluation criteria in the CCR Rule, with emphasis on deficiencies that could eliminate a corrective action from further consideration.
  - Determine data gaps and develop plans to collect additional data as needed.

- Develop plans for laboratory treatability and field pilot tests as needed.
- Perform laboratory treatability studies and implement field pilot tests.
- Begin the development of a detailed groundwater remedy plan.
- Submit the semi-annual progress report for groundwater delineation activities by May 18, 2021.
- Conduct the second semi-annual assessment sampling event in the spring of 2021 and submit the annual groundwater and corrective action report summarizing findings by August 1, 2021.

Executive Summary Table.
Monitoring Period Summary
Plant Gadsden - Ash Pond

Assessment Monitoring Initiated: July 16, 2019
Monitoring Period: August 1 - December 31, 2020
Beginning Status: Assessment
Ending Status: Assessment

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	GSD-AP-MW-1, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-11
Calcium	GSD-AP-MW-1, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-PZ-1
Chloride	GSD-AP-MW-1, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7,GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12
Fluoride	NA
pH	NA
Sulfate	GSD-AP-MW-1, GSD-AP-11, GSD-AP-MW-12
TDS	GSD-AP-MW-1, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-11, GSD-AP-MW-12

Appendix IV SSLs

Parameter	Wells
Arsenic	GSD-AP-MW-2, GSD-AP-MW-4
Lithium	GSD-AP-MW-2

*See the attached report for further details regarding statistical exceedances and alternate source demonstrations.

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Date Initiated: April 11, 2020
Date Complete: July 10, 2020
Public Meeting Date: October 19, 2020

Groundwater Remedy

Selected During Period: No
Selection Date: Not yet selected
Initiated During Period: No
Ongoing During Period: No

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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
CEC	cation exchange capacity
CFR	Code of Federal Regulations
COC	chain of custody
COI	constituents of interest
CSM	conceptual site model
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
MNA	monitored natural attenuation
MSL	mean sea level
MW-	denotes “Monitoring Well”
NELAP	National Environmental Laboratory Accreditation
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
SEM	scanning electron microscopy
SM	Standard Method(s)
SSE	selective sequential extraction

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
XRD	X-ray diffraction
XRF	X-ray fluorescence

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 Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, this 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the August 2020 semi-annual assessment groundwater monitoring activities at the Plant Gadsden Ash Pond (Ash Pond) and to satisfy the requirements of § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(f). This report also satisfies state semi-annual reporting requirements under ADEM Admin. Code r. 335-13-15-.06(5)(g).

Semi-annual monitoring and annual reporting for the Ash Pond is performed in accordance with the monitoring requirements of the EPA coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D) §§ 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 (APC) Gadsden Electric Generating Plant (Plant Gadsden) is located in the northeastern area of the city of Gadsden, in central Etowah County, Alabama. The physical address of the plant is 1000 Goodyear Avenue, Gadsden, AL 35903. Plant Gadsden occupies Sections 2, 3, and 11, Township 12 South, Range 6 East (USGS, 1986). The Ash Pond is located northeast of the plant and separated from the main plant by the Coosa River. **Figure 1, Site Location Map,** depicts the location of the Plant and Ash Pond with respect to the surrounding area.

2.1 SITE GEOLOGY AND HYDROGEOLOGY

2.1.1 Physical Setting

Plant Gadsden is located within the Coosa Valley district of the Valley and Ridge physiographic section (Sapp and Emplaincourt, 1975). The neighboring Coosa River forms a broad, gently sloping valley with elevations between 510 and 530 feet MSL. To the west of the Coosa River is a series of ridges including Shinbone Ridge, Lookout Mountain, and Big Ridge, some of which reach elevations above 1,450 feet MSL (USGS, 1986). Local Site elevations near the Ash Pond are approximately 520 feet above mean sea level (MSL). The embankment elevations that form the perimeter of the Ash Pond are between 520 and 525 feet MSL. **Figure 2**, **Site Topographic Map**, provides the topography of the Site.

2.1.2 Geology and Hydrogeology

Plant Gadsden is in the Appalachian thrust belt, which consists of a series of northeast trending thrust sheets and folds of Cambrian to Pennsylvanian strata. In general, the valleys represent eroded or breached anticlines underlain by Cambrian and Ordovician carbonates. The ridge crests are typically composed of relatively resistant sandstone and chert units and represent erosional remnants (Mann and Baker, 1995). The Appalachian thrust belt is bordered to the west by the Black Warrior basin, to the northwest by the East Warrior Platform, and to the north-northwest by the Nashville dome. It is bordered to the southeast by the Appalachian Piedmont (Osborne and Raymond, 1992).

A thrust fault lies near Plant Gadsden. The exact geometry and configuration of the fault is unknown because the fault is concealed under alluvium. To the north of the fault, folds and faults have a more moderate expression and generally trend to the northeast. To the south of the thrust fault, geologic structures become more complex, folding is more intense, and the structures trend in a more easterly orientation (Bossong, 1989). In general, faults in this region (including the Gadsden Fault) were active

during the late Paleozoic Alleghanian orogeny but are not considered to be presently active. **Figure 3, Site Geologic Map**, illustrates the surface geology at the Site and neighboring areas.

Boring logs from monitoring well and piezometer installations provide details on subsurface geologic conditions between ground surface and 75 feet below ground surface (ft BGS). Site geology consists of two distinct formations underlying the Ash Pond, described from shallowest to deepest as follows:

1. Surficial soils are described as Quaternary-age alluvial low terrace deposits and high terrace deposits consisting of varying amounts of sand, silt, clay, and gravel associated with river deposition (Raymond et al., 1988). These deposits range from 20 to 30 feet in thickness at the Site. Site groundwater monitoring wells are installed within higher-permeability zones near the base of the alluvial deposits and near the interface with underlying rock.

2. The Conasauga Formation (Middle and Upper Cambrian), which consists of varying amounts of limestone, dolomite, and shale. Chert and siltstone horizons can be present locally. Limited core logs from the Site indicate the Conasauga to be a medium to dark gray mudstone or shale with noticeable calcite veining. In general, the Conasauga Formation is characterized as a shoaling-upward succession in which deep-water shale grades vertically into a diverse assemblage of carbonate ramp facies. In Etowah County, the Conasauga Formation has been targeted as a potential source for shale gas and is preserved within the Gadsden antiform (Pashin, 2008). The Conasauga Formation is not considered to be a water-bearing aquifer at the Site.

Figure 4A Geologic Cross-Sections A-A' and Figure 4B, **Geologic Cross-Sections B-B'** illustrate the geologic layering beneath the Site.

2.1.3 Uppermost Aquifer

The uppermost aquifer beneath the Site corresponds to a coarse and more permeable fraction of alluvial overburden soils and weathered or fractured rock near the soil-rock interface. The uppermost aquifer is typically located at depths between 15 and 50 feet below ground surface (BGS). Soils are generally poorly graded sands with layers of clay and well-graded gravels that overlay a mudstone or shale bedrock. Groundwater recharge to the uppermost aquifer is largely accomplished by infiltration of precipitation and subsequent percolation down to the water table. Monitoring wells are typically screened across reddish-brown (iron-coated) coarse sediments and/or weathered Conasauga mudstone/shale.

2.1.4 Flow Interpretation

Within overburden soils beneath the Site, groundwater flow occurs by porous (Darcy) flow mechanics with potential for preferential movement along more conductive sand and gravel lenses or channels. Groundwater elevations fluctuate in response to rainfall. Seasonal ranges in groundwater elevations of 3 to 10 feet are typical at the Site. Fluctuations are typically greater further away from the Coosa River, which is consistent with groundwater recharge areas. Slug and Shelby Tube permeameter testing reveals that sandy fractions generally have a hydraulic conductivity between 0.5 and 7 feet per day.

Groundwater level monitoring was initiated with background sampling in December 2017 before Ash Pond closure and dewatering was complete. Groundwater elevation contours between December 2017 and December 2018 displayed a radial pattern of groundwater flow away from the Site. Groundwater flow was interpreted to flow to the north, south, east, and west from this mound. Therefore, wells and piezometers around the periphery of the pond are all classified as downgradient. Between December 2018 and February 2019 (5-7 months after closure), the radial groundwater flow pattern appeared to diminish and became a north to south groundwater flow pattern. We believe this is likely the result of groundwater flow restoring to pre-pond conditions because the hydraulic influence of the pond was eliminated by closure and dewatering.

Based on recent groundwater elevation data from August 2019, April 2020, and August 2020, it appears a localized groundwater divide is present in the drier fall season along the north side of the Ash Pond. During dry season monitoring events (August 2019 and August 2020), groundwater elevations were an average of 7 feet lower in monitor wells GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6, GSD-AP-MW-18H, and GSD-AP-MW-19H when compared to the April 2020 monitoring event. The result of the localized groundwater divide is a temporary reversal of flow from south to north in the direction of an intermittent stream that flows seasonally in response to the seasonal rise in the water table. It is possible that seasonal changes in evapotranspiration may cause a rise and fall in the water table, which produces bidirectionality in both stream-groundwater head gradients.

2.2 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Gadsden has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer. The certified groundwater monitoring system for the Plant Gadsden 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 and downgradient monitoring locations based on groundwater flow direction as determined by

the potentiometric surface elevation contour maps. 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 groundwater monitoring network comprises 19 monitoring wells and 1 piezometer. Initially, piezometers PZ-1, PZ-2, PZ-5, and PZ-6 were used to constrain groundwater flow at the site but were later converted to downgradient wells. Monitoring well locations referenced to the Ash Pond are presented on **Figure 5**, **Monitoring Well Location Map**. **Table 1, Groundwater Monitoring Network Details**, summarizes the monitoring well construction details and design purpose for the Plant Gadsden Ash Pond.

2.2.1.1 Upgradient Wells

To evaluate upgradient well locations at the Site, groundwater elevations and CCR indicator parameters were reviewed. Radial flow has historically been observed at the Ash Pond, and identifying a truly upgradient location in the vicinity was infeasible. To meet the requirements of the rules and establish background groundwater quality not affected by a release from the unit, on-site groundwater monitoring wells were installed within the same geologic formation as site monitoring wells and across the river from the Ash Pond. Monitoring well locations MW-14, MW-16, and MW-17 serve as upgradient locations for the Ash Pond. These well locations are located on the opposite side of the Coosa River and are hydraulically disconnected from downgradient flow away from the Gadsden Ash Pond. Groundwater flow in the area of upgradient locations is from south to north.

2.2.1.2 Downgradient Wells

Monitoring well locations MW-1 through MW-12, PZ-1, PZ-2, PZ-5, and PZ-6 are used as downgradient locations. These well locations are proximal to the waste boundary to the north, east, south, and west of the Ash Pond.

Because groundwater flow conditions have changed at the Site (as described in **Section 2.1.4**), wells previously identified as being downgradient to the north (GSD-AP-MW-1, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6) now appear hydraulically upgradient of the Site or hydraulically separated from the Site by a localized groundwater divide. APC will continue to monitor all wells surrounding the Ash Pond as downgradient compliance

wells until a revision to the network is proposed to and approved by ADEM. Changes to well designations are not recommended at this time.

2.2.1.3 Piezometers

Vertical delineation well GSD-AP-MW-2V installed proximal to GSD-AP-MW-2 did not yield sufficient groundwater for well development. As a result, GSD-AP-MW-2V has been converted to a temporary piezometer used to better define groundwater flow direction at the Site.

2.2.1.4 Delineation Wells

Pursuant to AO 19-104-GW, additional wells were installed in October 2019 and in January 2020. These delineation wells were installed to define the horizontal and vertical extent of arsenic and lithium MCL exceedances. Horizontal delineation wells GSD-AP-MW-18H, GSD-AP-MW-19H, and GSD-AP-MW-20H were installed in October 2019 north of compliance wells GSD-AP-MW-2/GSD-AP-MW-4 and in areas historically interpreted as downgradient of the Ash Pond. Two vertical delineation wells, GSD-AP-MW-2V and GSD-AP-MW-4V, were installed in October 2019, and one vertical delineation well, GSD-AP-MW-2VA, was installed in January 2020, to delineate the vertical extent of MCL exceedances. Vertical delineation well GSD-AP-MW-2V did not yield sufficient groundwater for well development and has been converted to a temporary piezometer. As a result, GSD-AP-MW-2VA was installed to replace GSD-AP-MW-2V. These vertical delineation wells were installed adjacent to monitoring wells GSD-AP-MW-2 and GSD-AP-MW4 where elevated concentrations of constituents had been observed. These wells were sampled for the first time during the April 2020 semi-annual sampling event pursuant to the requirements of 40 CFR § 257.95(g)(1)(iv) and ADEM Admin. Code r. 335-13-15-.06(6)(g)2.(iv) and using the sampling procedures described in the site groundwater monitoring plan. The results of delineation activities were discussed in a Groundwater Investigation Report submitted to ADEM in May 2020 and a Semi-Annual Progress Report submitted in November 2020. Delineation wells are presented on **Figure 5 and Table 1.**

2.2.1.5 Monitoring Variance

The groundwater monitoring program at the Site is operating under a Variance granted by ADEM 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.

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 December 2017 through February 2019. Semi-annual compliance monitoring began in April 2019.

2.2.2.1 Available Monitoring Data

In accordance with § 257.94(b) and ADEM Admin. Code r. 335-13-15-.06(5)(b), eight independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV prior to April 17, 2019. Background sampling was performed over the period of December 2017 to February 2019. Groundwater sampling for the first detection monitoring event after the background period was performed in February 2019.

Based on results of the 2018 and 2019 monitoring, APC initiated an assessment monitoring program on July 16, 2019. 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 August, within 90 days of initiating the assessment monitoring program.

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

2.2.2.2 Historical Groundwater Flow

Groundwater level monitoring was initiated with background sampling in December 2017, before Ash Pond closure and dewatering was complete. Groundwater elevation contours between December 2017 and December 2018 displayed a radial pattern of groundwater flow away from the Site. Groundwater flow was interpreted to flow to the north, south, east, and west from this mound.

Between December 2018 and February 2019, as the pond was dewatered, the radial groundwater flow pattern appeared to diminish, exhibiting a more north-to-south groundwater flow pattern. The observed change in flow pattern likely represents groundwater flow returning to pre-pond conditions as the hydraulic influence of the pond was eliminated by closure and dewatering.

A less prominent groundwater mound was observed just to the north of the Site during the August 2019 and August 2020 sampling events and appears to form a localized groundwater divide where groundwater flows to the north (north of the divide) or to the south (south of the divide). The groundwater divide appears to be centered approximately 120 feet north of the Ash Pond, indicating north to south flow across the Ash Pond. During the August 2020 sampling event, the dominant groundwater flow direction south of the divide was generally from northeast to southwest and south-southwest. Along the western boundary of the Site, groundwater flows to the west. Additionally, an upward vertical gradient between well pair GSD-AP-MW-2 and GSD-MW-2VA was observed, which implies that groundwater from deeper rock intervals (where GSD-MW-2VA is screened) is flowing up towards more shallow intervals .

Groundwater elevations fluctuate in response to rainfall. Seasonal variations in groundwater elevations of 3 to 10 feet are typical at the Site. Fluctuations are typically greater further away from the Coosa River, which is consistent with groundwater recharge areas. Standard variations (variance from mean groundwater elevation) are more typically between 1 and 2 feet with slightly higher variance observed in areas further north of the Coosa River.

2.2.3 Groundwater Sampling and Analysis

As described in **Section 2.2.2.1**, the Site entered an assessment monitoring pursuant to 40 CFR § 257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a) in July 2019. The following sections and subsections describe activities and results from the semi-annual assessment monitoring event.

2.2.3.1 Sampling Event Summary

Semi-annual Assessment Monitoring sampling occurred in August 2020. Groundwater samples were analyzed for the complete list of Appendix III and Appendix IV parameters during the assessment monitoring event. Analytical data from the groundwater monitoring event 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 Gadsden are equipped with a dedicated pump. Monitoring wells were purged and sampled using low-flow sampling procedures. In this procedure, field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) are measured to determine stabilization and groundwater samples are collected when the following stabilization criteria are 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 10 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 event 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 6 °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 were performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama or Eurofins Test America (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 ELEVATIONS AND FLOW

Based on recent groundwater elevation data from August 2019, April 2020, and August 2020, it appears a localized groundwater divide is present in the drier fall season along the north side of the Ash Pond. Groundwater elevations and flow interpretations illustrating this seasonal pattern are presented on **Figure 6A, Potentiometric Surface Contour Map (August 19, 2019), Figure 6B, Potentiometric Surface Contour Map (April 13, 2020), and Figure 6C, Potentiometric Surface Contour Map (August 24, 2020).** During dry season monitoring events (August 2019 and August 2020), groundwater elevations were an average of 7 feet lower in monitor wells GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6, GSD-AP-MW-18H, and GSD-AP-MW-19H when compared to the April 2020 monitoring event.

During the April 2020 sampling event, depths to water ranged from 0.35 to 23.92 feet below top of casing and groundwater elevations ranged from 532.80 to 508.71 feet above mean sea level (ft MSL). **Figure 6B** depicts groundwater elevations and inferred groundwater flow direction. As shown on **Figure 6B**, the dominant groundwater flow direction is generally from northeast to southwest and south-southwest. Along the western boundary of the Site, groundwater flows to the west. **Figure 6B** also shows an upward vertical gradient between well pair GSD-AP-MW-2 and GSD-MW-2VA, which implies that groundwater from deeper rock intervals (where GSD-MW-2VA is screened) is flowing up towards more shallow intervals.

During the August 2020 sampling event, depths to water ranged from 4.21 to 26.23 feet below top of casing and groundwater elevations ranged from 530.65 to 507.64 feet above mean sea level (ft MSL). **Figure 6C** depicts groundwater elevations and inferred groundwater flow direction. As shown on **Figure 6C**, a less prominent groundwater mound was observed just north of the Site during the most recent sampling event and appears to form a localized groundwater divide where groundwater flows to the north (north of the divide) or to the south (south of the divide). The groundwater divide appears to be centered approximately 120 feet north of the Ash Pond, which indicates north to south flow across the Ash Pond.

As described in the Facility Plan for Groundwater Investigation (September 2019), Semi-Annual Groundwater Monitoring and Corrective Action Report (February 2020), and Groundwater Monitoring Plan (April 2020), groundwater flow direction appears to have reverted to more natural conditions since December 2018. This is likely the result of groundwater flow restoring to pre-pond conditions as the hydraulic influence of the pond was eliminated by closure and dewatering. All available groundwater elevation data recorded since 2017 have been tabulated and included in **Table 3, Groundwater Elevations Summary.**

3.2 GROUNDWATER FLOW VELOCITY CALCULATIONS

Groundwater flow velocity at the Site was calculated based on hydraulic gradients, hydraulic conductivity values derived from slug tests, and an estimated effective porosity of the screened horizon. To date, four slug tests have been analyzed. Based on these analyses, the horizontal hydraulic conductivities for the uppermost aquifer ranges from 2.28 ft/day and 67.75 ft/day, with 67.75 ft/day observed in a more permeable gravel zone. The geometric mean hydraulic conductivity for the Site is 12.33 ft/day. The hydraulic gradient was calculated between well pairs shown on **Table 4, Horizontal Groundwater Flow Velocity Calculations**. The hydraulic conductivity value used in the calculations is 4.35 x 10-3 cm/sec or 12.33 ft/day and representative of the geometric mean. An estimated effective porosity of 20% is used in the flow rate calculations.

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, horizontal 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 August 2020 sampling event.

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 1 sample per every group of 10 well samples. Equipment blanks and field blanks 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 difference is 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 the August 2020 sampling event. All RPDs were below 20% for the August 2020 sampling event.

Data from all equipment and field blanks were reviewed for purposes of QA/QC. All equipment and field blank data were below laboratory detection limits and additional data 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

Intrawell prediction limits, combined with a 1-of-2 verification strategy, were constructed for fluoride and pH. Interwell prediction limits, combined with a 1-of-2 verification strategy, are used to evaluate boron, calcium, chloride, sulfate, and TDS. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to identify SSIs.

Groundwater Stats Consulting demonstrated that these test methods were appropriate in the April 2019 Statistical Analysis Plan. 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% non-detects 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, Appendix IV constituents are sampled semi-annually, and concentrations are statistically 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 on 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 (see section **2.2.1.5)**, 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.
    (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. Data from upgradient wells collected in between updates may still be used to support ASDs.

4.3 STATISTICAL EXCEEDANCES

Analytical data from the August 2020 assessment monitoring event were statistically analyzed in accordance with the Professional Engineer (PE)-certified Statistical Analysis Plan (April 2019) and updated in August 2020 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 Analyses**, 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.**

4.3.2.1 First Semi-Annual Monitoring Period

Statistical analysis of Appendix IV data identified the following SSLs over GWPS at the listed wells during the first (August 2020) semi-annual monitoring event:

- GSD-AP-MW-2: Arsenic, Lithium.
- GSD-AP-MW-4: Arsenic.

Limited groundwater analytical data is available for delineation wells installed at the Site in late 2019 and early 2020; 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 first semi-annual sampling event (August 2020):

- GSD-AP-MW-2VA: Lithium.

Details regarding the installation and sampling of these wells, and future proposed actions as a result of these exceedances, were submitted to ADEM in a Groundwater Investigation Report on May 22, 2020 and a Semi-Annual Progress Report on November 18, 2020.

Table 7, First Semi-Annual Monitoring Event Analytical Summary, provides a summary of all detected constituents for the first semi-annual sampling event (August 2020). Statistical reporting output is included as **Appendix C**. Pursuant to § 257.95(g)(3) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4., within 90 days of finding that any of the Appendix IV constituents exceeds the GWPS (i.e. 90 days from January 12,

2020) an ACM following § 257.96 and ADEM Admin. Code r. 335-13-15-.06(7) was initiated on April 11, 2020.

An ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic 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 No. 19-104-GW. The ACM was completed on July 10, 2020 and submitted to ADEM and placed on the CCR compliance web site on August 9, 2020.

5.0 MONITORING PROGRAM STATUS

The Site is currently in assessment monitoring based on SSIs of Appendix III parameters identified at the Plant Gadsden Ash Pond during sampling events conducted in 2019. In accordance with § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC initiated assessment monitoring in July 2019. SSLs of Appendix IV constituents were identified above the groundwater protection standards. Pursuant to § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(i), APC completed an ACM in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order No. 19-104-GW.

6.0 EVALUATION OF GROUNDWATER CORRECTIVE MEASURES

An ACM has been prepared pursuant to the regulatory requirements of 40 CFR § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order No. 19-104-GW to evaluate potential groundwater corrective measures for the occurrence of arsenic and lithium in groundwater at statistically significant levels at the Ash Pond. During the ACM, remedial technologies and methods are screened for feasibility and implementation at the Site. Upon completion of the ACM, further studies are conducted to evaluate and narrow down the potential remedial components of the corrective action plan.

Site investigations have continued to support remedy selection and design. As discussed in the ACM (Anchor QEA 2020), completing a final long-term corrective action plan is generally a multi-year process. Additional assessment work has been completed since July 2020, and field work and preliminary data analysis have been conducted to support MNA and in situ geochemical manipulation as discussed in the ACM. MNA and geochemical manipulation are both geochemically based, so site-specific geochemical data and analyses can be applied to both technologies.

During this reporting period (July through December 2020), the following field and laboratory investigations were performed:

- Evaluated groundwater analytical data (primarily graphing) to look for evidence of natural attenuation occurring in space and time.
- Collected groundwater samples from background and impacted wells and performed a complete chemical analysis on the samples to enable groundwater geochemical modeling and the development of a geochemical conceptual site model (CSM).
- Collected attenuating solid (precipitate) samples from the bottom of monitoring wells.
- Analyzed precipitate samples by X-ray fluorescence (XRF) to determine bulk chemistry and evaluate associations among elements (e.g., arsenic with iron).

The following investigations were begun during this reporting period but are still ongoing:

- Analysis of precipitate samples by X-ray diffraction (XRD) to determine which attenuating mineral phases are present.
- Scanning electron microscopy (SEM) to directly observe attenuating mineral phases by their distinctive morphology (shape) and to determine attenuating mechanisms by spectral analysis (e.g., incorporation of arsenic into sulfide mineral phases).

- Selective sequential extraction (SSE) to determine association of arsenic and lithium with attenuating phases, and the relative strength and stability of the attenuation mechanisms.
- Cation exchange capacity (CEC) to assess ion exchange as an attenuation mechanism, which is particularly relevant to lithium.
- Performed preliminary geochemical modeling using the U.S. Geological Survey (USGS) computer program PHREEQC with the WATEQ4F thermodynamic database to predict which attenuating mechanisms should be occurring.

Activities completed during the second semi-annual reporting period in 2020 focused on collecting and analyzing groundwater and solids samples from wells to support MNA and geochemical manipulation. Additional hydrogeologic and geochemical data collected during delineation investigations are being used to refine the geochemical CSM and to further evaluate the feasibility of each proposed corrective measure. When feasible, data needed to refine the CSM will be collected concurrent with the routine assessment monitoring events.

Laboratory analysis of groundwater and precipitates (attenuating solids) was conducted to support MNA and geochemical manipulation (sometimes referred to as enhanced natural attenuation). The major rationale for these investigations includes the following:

- Identifying attenuating mechanisms.
- Gaining an understanding of the permanence of the attenuating mechanisms.
- Identifying potential geochemical manipulation approaches for arsenic and lithium based on site geochemical conditions and attenuation processes already occurring naturally.

Analytical results generated during these studies will be included in subsequent semi-annual groundwater monitoring reports.

7.0 SUMMARY AND CONCLUSIONS

The first semi-annual assessment monitoring event took place in August 2020. Statistical evaluations of semi-annual 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 a May 2020 Groundwater Investigation Report. The report recommended a second phase of groundwater investigation to complete vertical delineation of groundwater impacts as required by Part C of the Order. The first Semi-Annual Progress Report was submitted on November 18, 2020 and included the Phase II Groundwater Delineation Plan Scope of Work. These additional monitoring wells will continue to be sampled and analyzed as part of the ongoing assessment monitoring program.

An Assessment of Corrective Measures was initiated on April 11, 2020 and completed on July 10, 2020 to address SSLs of Appendix IV constituents above the GWPS. The ACM report was prepared by Anchor QEA for APC and was placed in the operating record on August 9, 2020. Additional data and analysis will be required to perform a thorough site-specific evaluation and supplemental design of groundwater corrective actions for the Site.

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

- Complete geochemical modeling, XRD, SSE, SEM, and CEC work.
- Integrate the XRD, SEM, SSE, CEC, and geochemical modeling results into a geochemical CSM; perform additional geochemical modeling if needed.
- Installation, sampling, and analyses of an additional vertical delineation well.
- Perform a conceptual-level feasibility study of potentially viable corrective actions
    - Show where the viable corrective actions could be applied on Site maps and on geologic sections.
    - Compare site-specific corrective actions to the evaluation criteria in the CCR Rule, with emphasis on deficiencies that could eliminate a corrective action from further consideration.
    - Determine data gaps and develop plans to collect additional data as needed.
- Develop plans for laboratory treatability and field pilot tests as needed.
- Perform laboratory treatability studies and implement field pilot tests.

- Begin the development of a detailed groundwater remedy plan.
- Submit the semi-annual progress report for groundwater delineation activities by May 18, 2021.
- Submit the next Semi-Annual Remedy Selection and Design Progress Report by June 12, 2021.
- Conduct the second semi-annual assessment sampling event in the spring of 2021 and submit the annul groundwater and corrective action report summarizing findings by August 1, 2021.

8.0 REFERENCES

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Figures

Legend

- Property Boundary (Approximate)
- Ash Pond Boundary

N

0 500 1,000 2,000 3,000 Feet

SCALE	1:9000
DATE	11/10/2020
DRAWN BY	KAR
TECH REVIEW	KWR
CHECKED BY	GBD

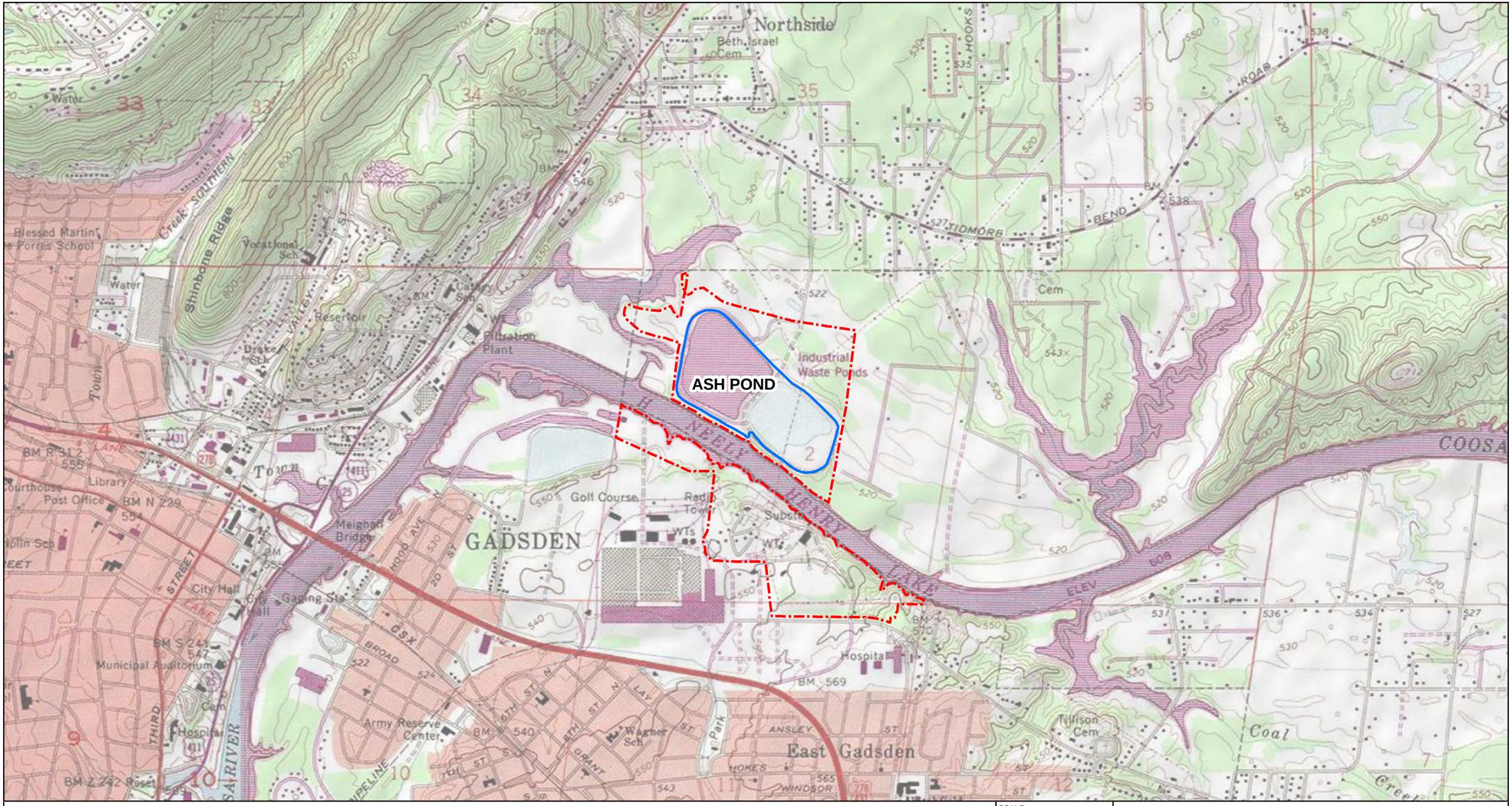
DRAWING TITLE

SITE LOCATION MAP
PLANT GADSDEN ASH POND

FIGURE NO

FIGURE 1

Southern Company



Legend

- Ash Pond Boundary
- Property Boundary (Approximate)

N

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

SCALE	1:18000
DATE	11/10/2020
DRAWN BY	KAR
TECH REVIEW	KWR
CHECKED BY	GBD

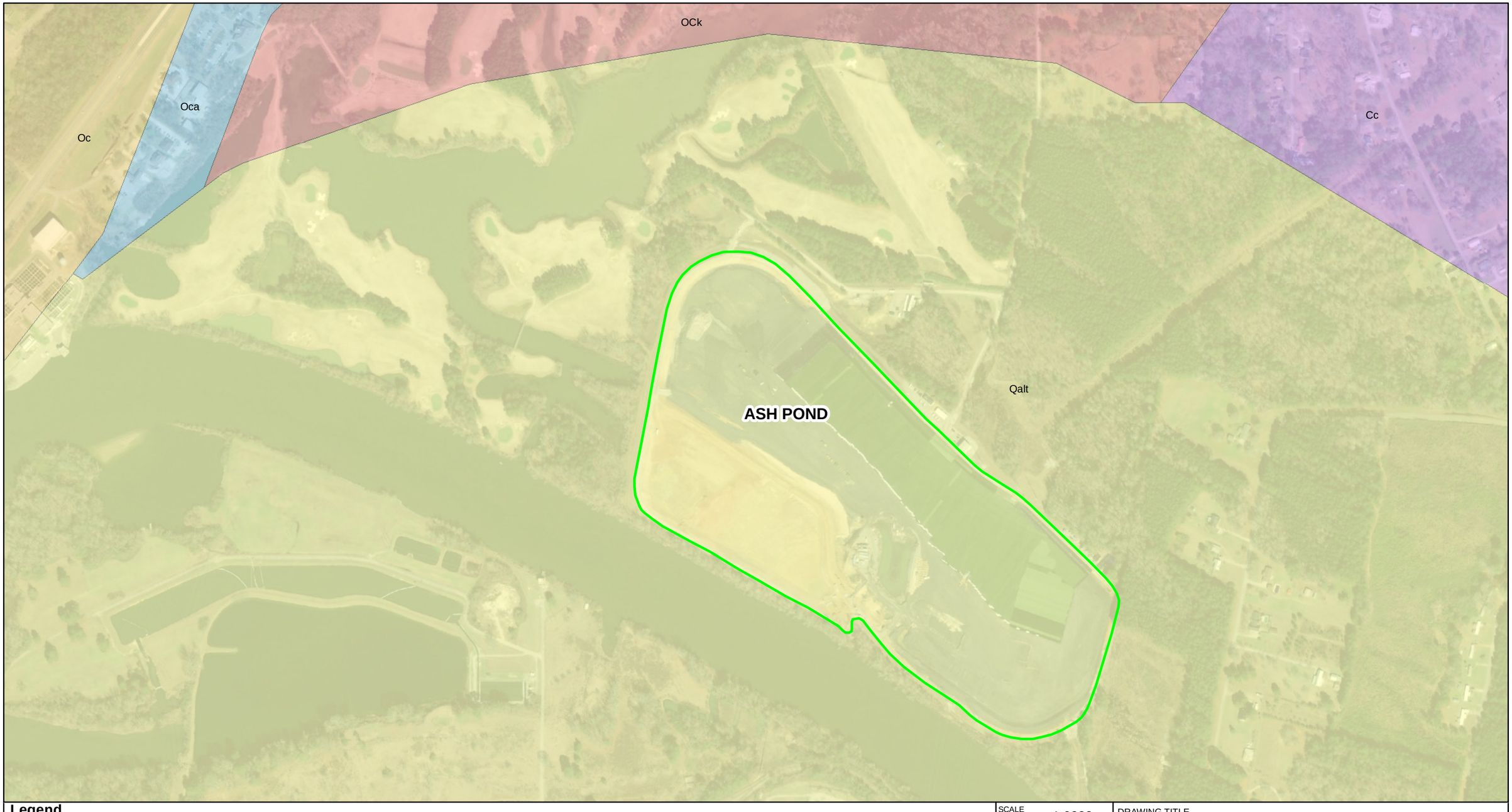
DRAWING TITLE

SITE TOPOGRAPHIC MAP
PLANT GADSDEN ASH POND

FIGURE NO

FIGURE 2

Southern Company



Legend

- Ash Pond Boundary

Geologic Units

- Alluvial, coastal, and low terrace deposits (Qalt)
- Attalla Chert Conglomerate Member of the Chickamauga Limestone (Oca)
- Chickamauga Limestone (Oc)
- Conasauga Formation (Cc)
- Knox Group undifferentiated (OCk)

N

0 250 500 1,000 1,500 2,000 Feet

SCALE	1:6000
DATE	11/10/2020
DRAWN BY	KAR
TECH REVIEW	KWR
CHECKED BY	GBD

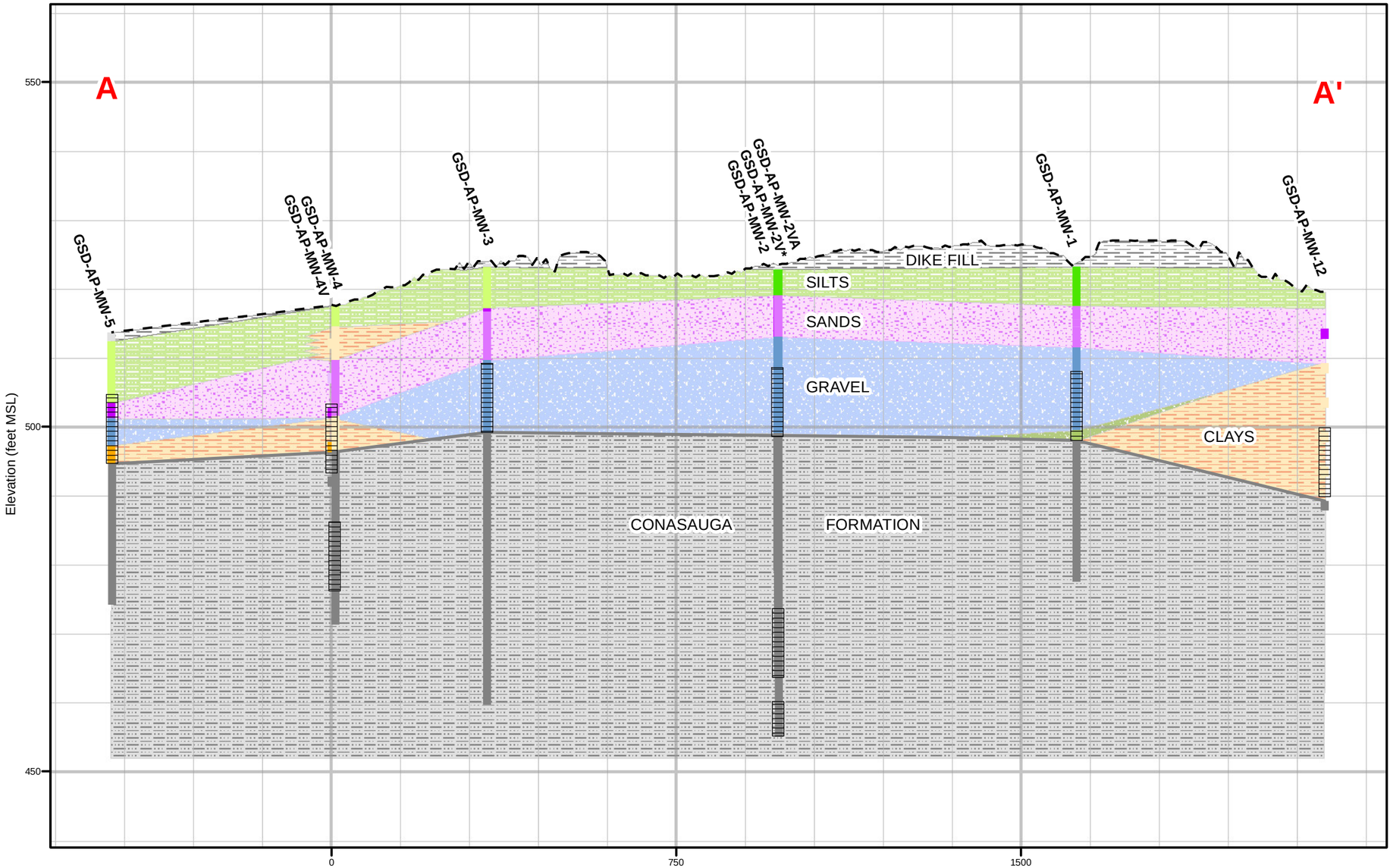
DRAWING TITLE

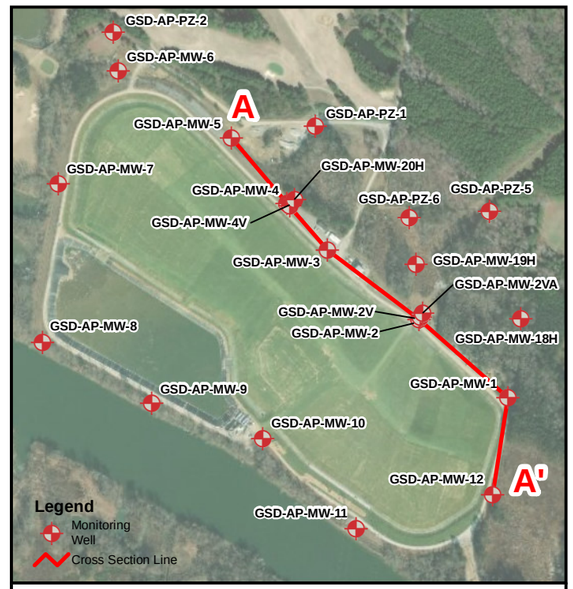
SITE GEOLOGIC MAP
PLANT GADSDEN ASH POND

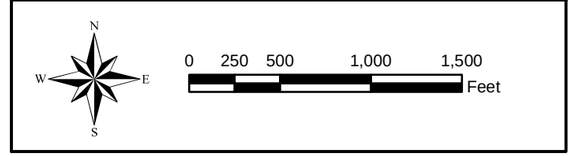
FIGURE NO

FIGURE 3

Southern Company







Notes: 1. Stratagraphic layers were correlated using boring data.
2. Elevation data are reported using feet above Mean Sea Level (MSL).
3. Vertical exaggeration is 15x.
4. *GSD-AP-MW-2V is utilized for water levels only and was not sampled.

Legend

- Screen Interval
- Ground Surface Elevation
- Unit Boundary

Borehole Descriptions

- Topsoil/Fill
- Lean and Sandy Lean Clay
- Silty Clay
- Silt
- Sandy Silt
- Silty Sand
- Well-graded Sand
- Poorly-graded Sands
- Clay, Sand, and Gravel Mix
- Well-graded Gravel
- Mudstone/Shale

Geologic Units

- Dike Fill
- Clays
- Silts
- Sands
- Gravel
- Undifferentiated Clay, Sand, and Gravel
- Mudstone/Shale

HORIZONTAL SCALE	1:3000
DATE	6/22/2020
DRAWN BY	KWR
TECH REVIEW	KAR
CHECKED BY	GBD

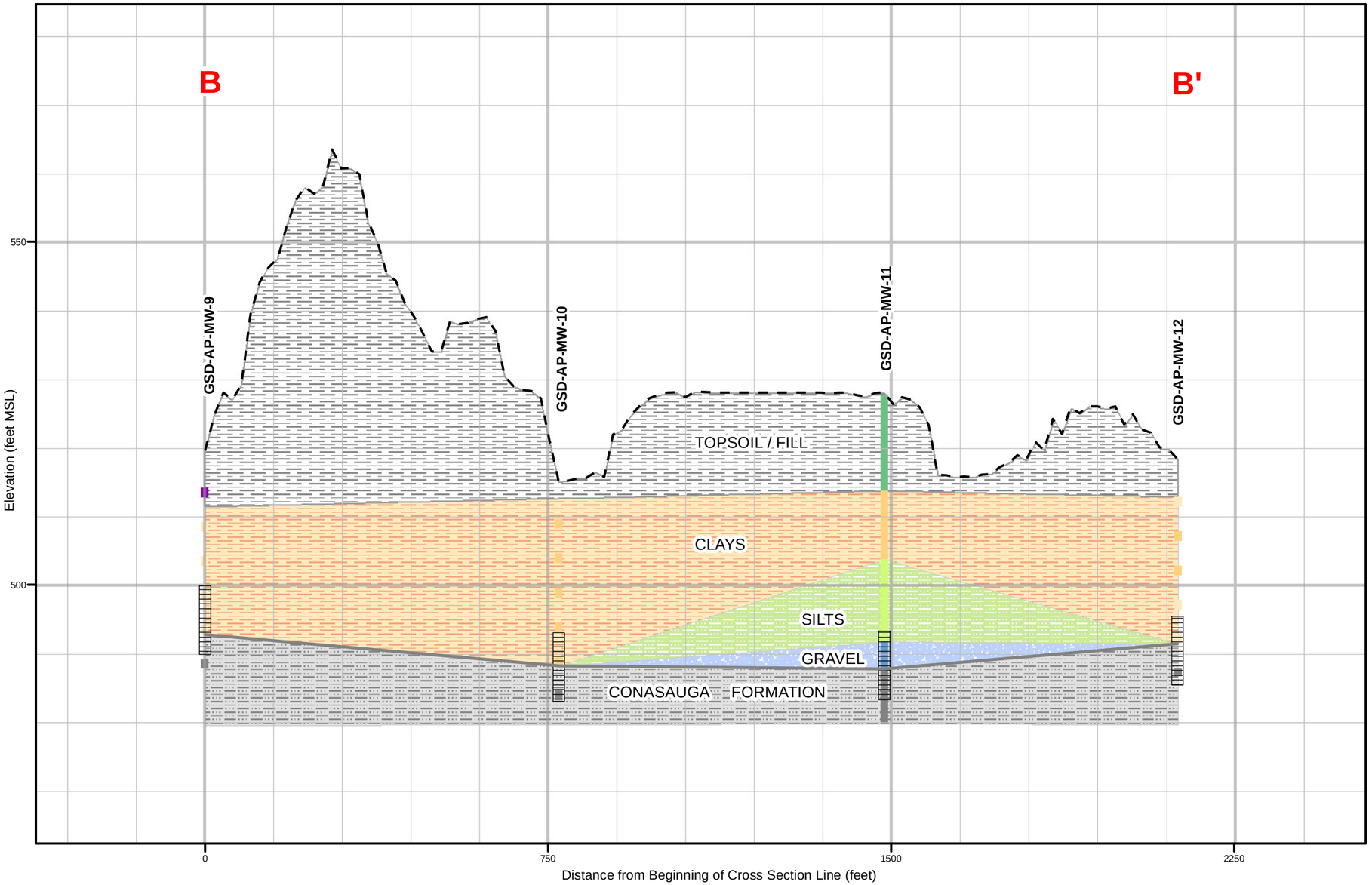
DRAWING TITLE

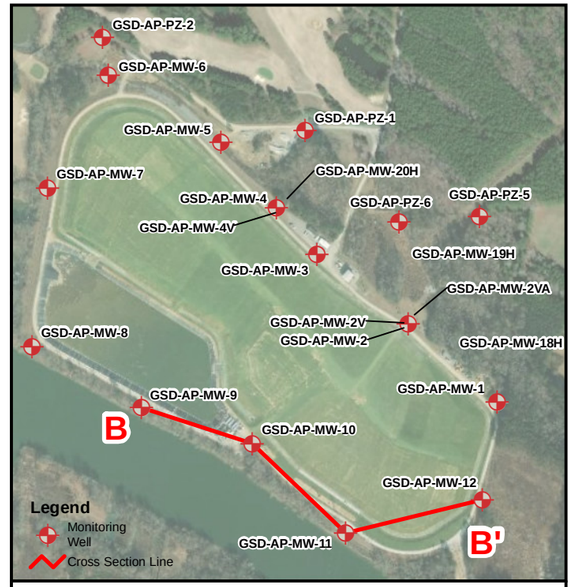
GEOLOGIC CROSS-SECTION A - A'
PLANT GADSDEN ASH POND

FIGURE NO

FIGURE 4A

Southern Company





Notes: 1. Stratagraphic layers were correlated using boring data.
2. Elevation data are reported using feet above Mean Sea Level (MSL).
3. Vertical exaggeration is 15x.

Legend

- Screen Interval
- Ground Surface Elevation
- Unit Boundary

Borehole Descriptions

- Clay, Silt, and Gravel Fill
- Lean Clays
- Fat and Silty Clays
- Silt
- Poorly-graded Gravelly Sand
- Well-graded Gravel
- Shale/Siltstone

Geologic Units

- Topsoil/Fill
- Clays
- Silts
- Gravel
- Siltstone/Shale

HORIZONTAL SCALE	1:3000
DATE	6/22/2020
DRAWN BY	KWR
TECH REVIEW	KAR
CHECKED BY	GBD

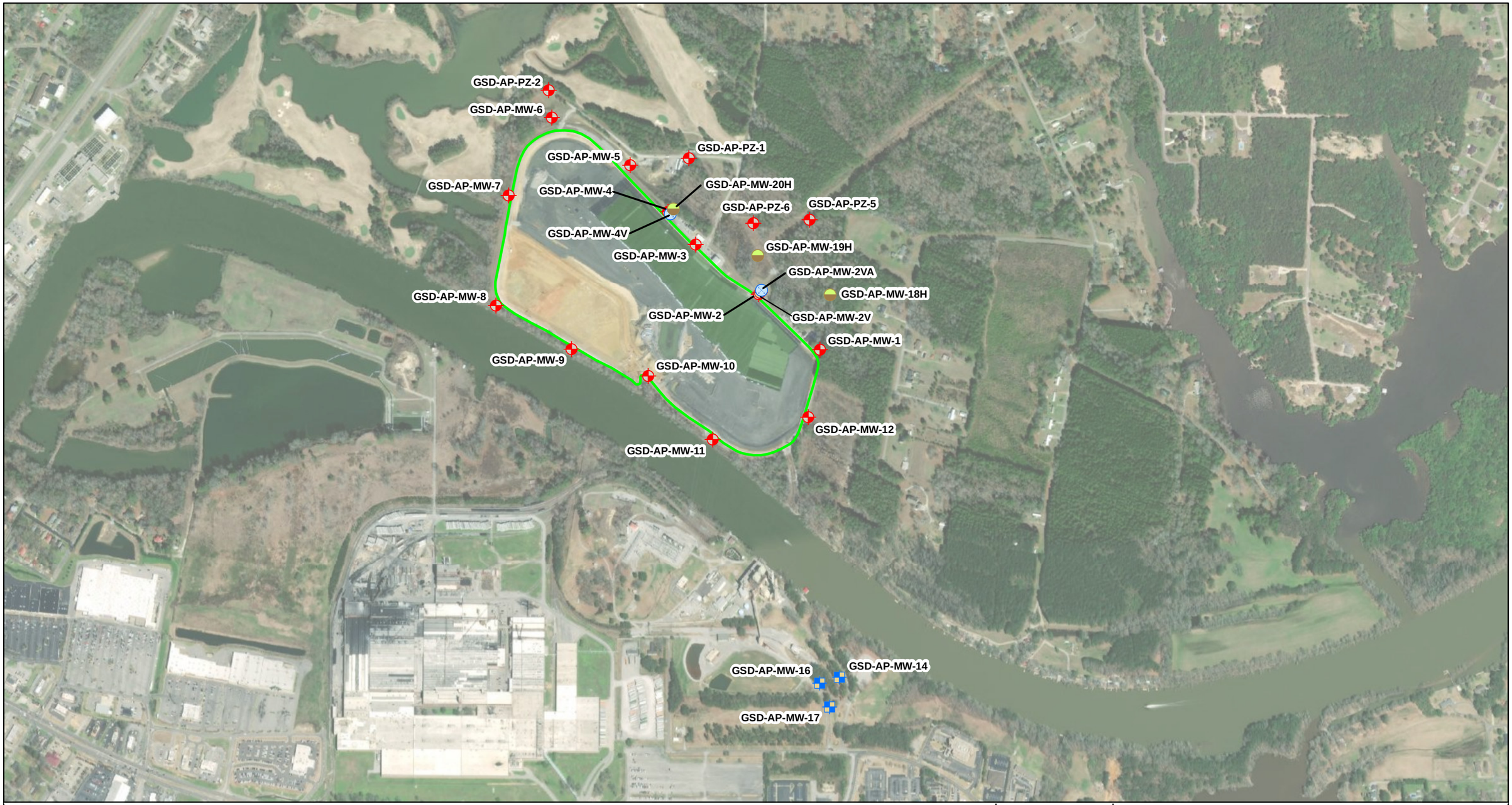
DRAWING TITLE

GEOLOGIC CROSS-SECTION B - B'
PLANT GADSDEN ASH POND

FIGURE NO

FIGURE 4B

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Ash Pond Boundary

N

0 500 1,000 2,000 3,000 Feet

SCALE	1:9000
DATE	7/20/2020
DRAWN BY	KAR
TECH REVIEW	KWR
CHECKED BY	GBD

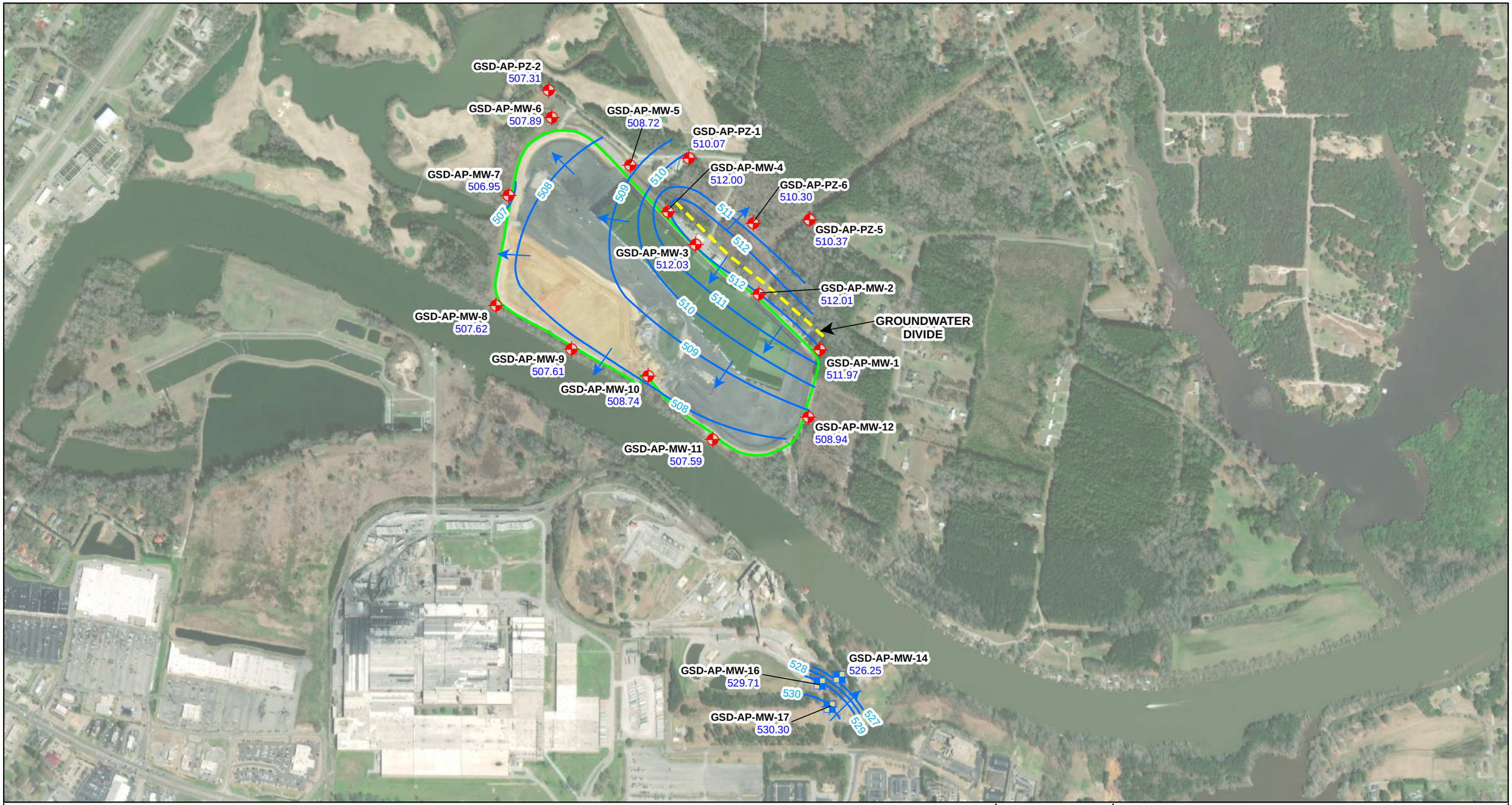
DRAWING TITLE

MONITORING WELL LOCATION MAP
PLANT GADSDEN ASH POND

FIGURE NO

FIGURE 5

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- **GN-AP-MW-1** Well ID
- 511.97 Groundwater Elevation
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary

N

0 500 1,000 2,000 3,000 Feet

NOTE: NAVD88 indicates North American Vertical Datum of 1988.

SCALE	1:9000
DATE	7/20/2020
DRAWN BY	KWR
CHECKED BY	GBD

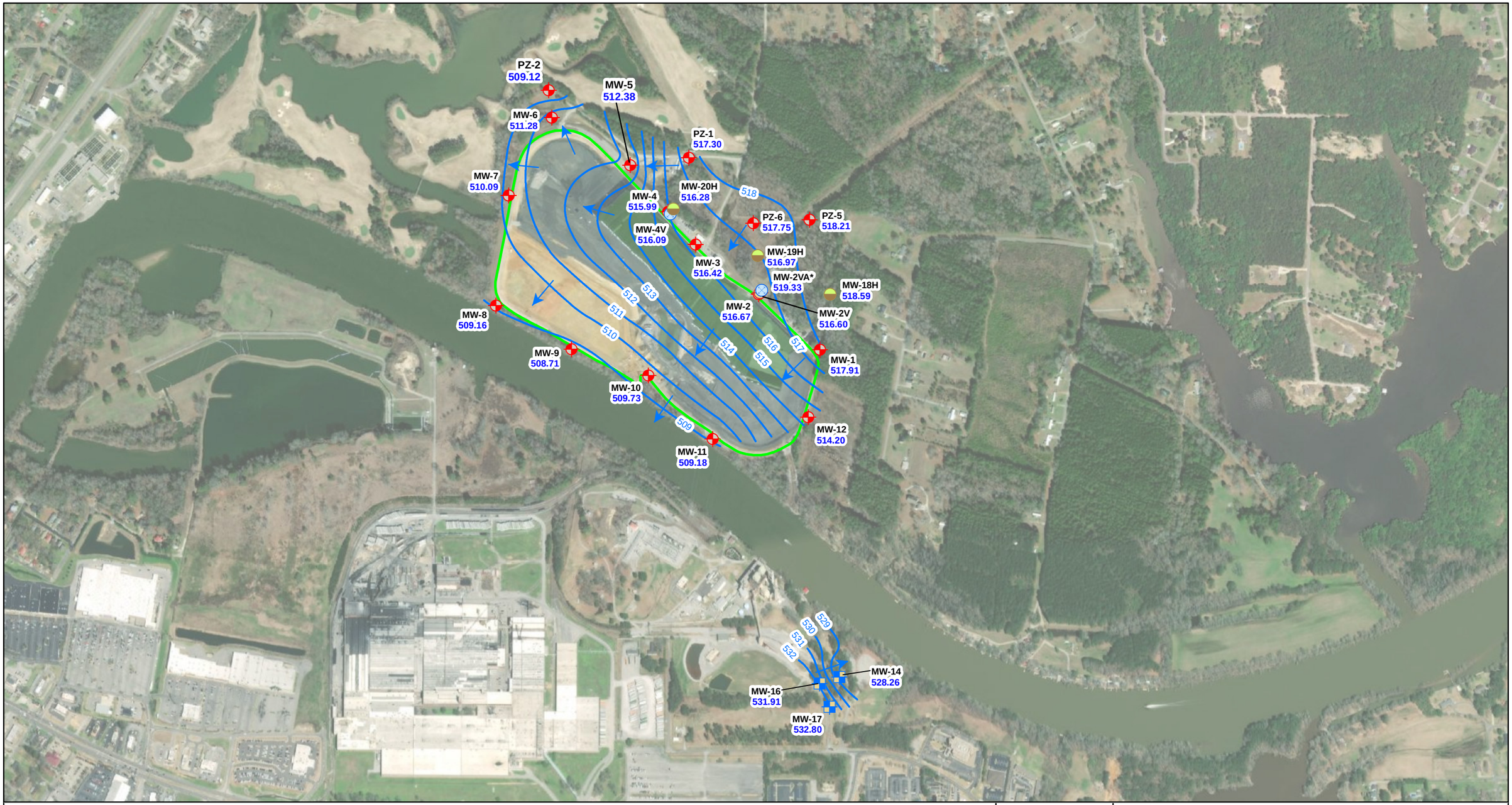
DRAWING TITLE

POTENTIOMETRIC SURFACE CONTOUR MAP AUGUST 19, 2019 PLANT GADSDEN ASH POND

FIGURE NO

FIGURE 6A

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- **MW-1** Well ID
  517.91 Groundwater Elevation

N

0 500 1,000 2,000 3,000 Feet

NOTES:
1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
2. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GSD-AP-" as shown on the Monitoring Well Location Map.
3. *Vertical delineation well MW-2VA was excluded from potentiometric surface calculation because it appears to be screened in a separate hydrogeologic unit.

SCALE	1:9000
DATE	11/10/2020
DRAWN BY	KAR
TECH REVIEW	KWR
CHECKED BY	GBD

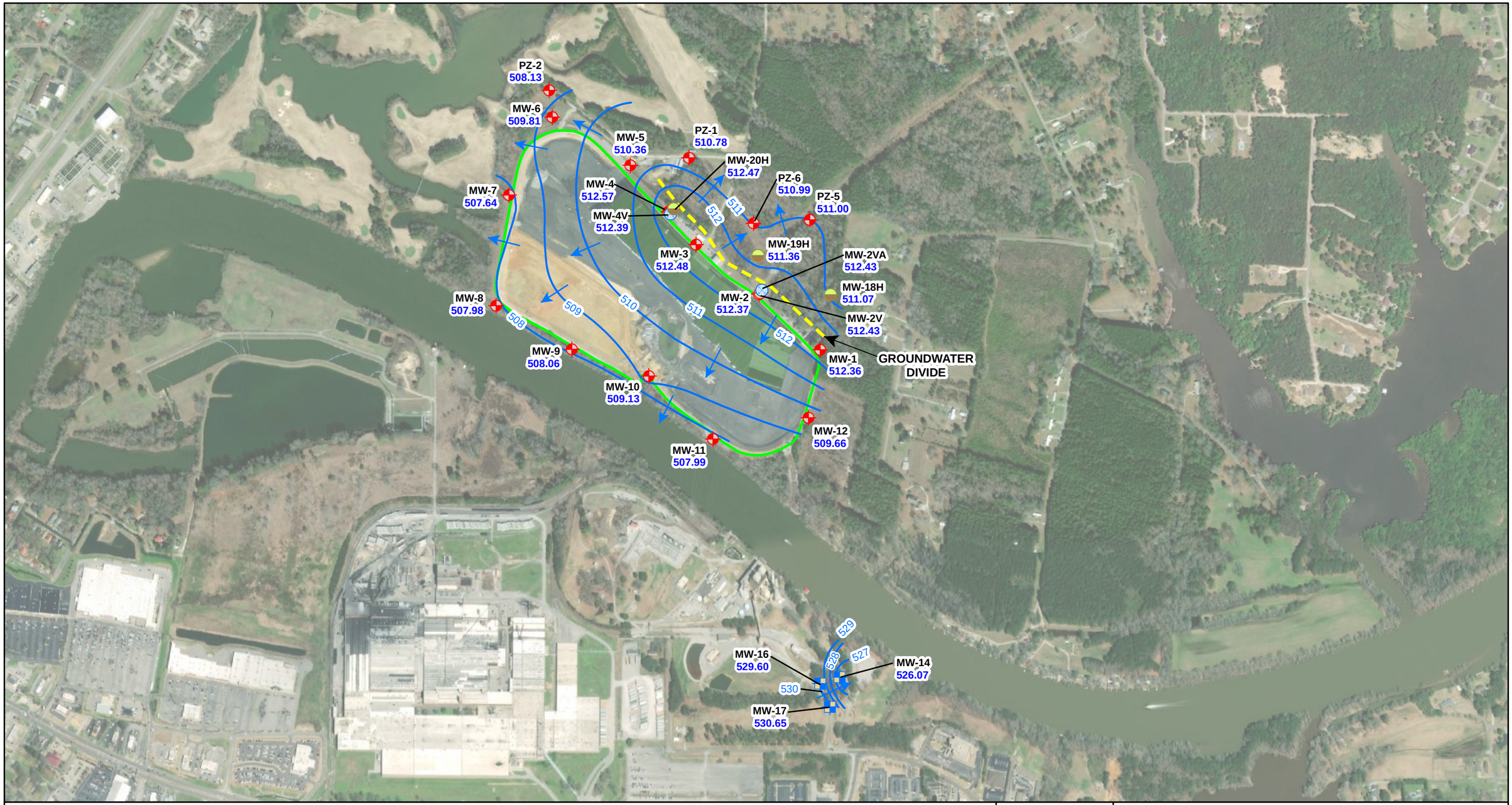
DRAWING TITLE

POTENTIOMETRIC SURFACE CONTOUR MAP APRIL 13, 2020 PLANT GADSDEN ASH POND

FIGURE NO

FIGURE 6B

Southern Company



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- Groundwater Divide
- **MW-1** Well ID
- 512.36 Groundwater Elevation

N

0 500 1,000 2,000 3,000 Feet

NOTES:
1. ft NAVD88 indicates feet above North American Vertical Datum of 1988.
2. Abbreviated well and piezometer designations are shown for readability. Formal well designations are preceded by "GSD-AP-" as shown on the Monitoring Well Location Map.

SCALE	1:9000
DATE	11/24/2020
DRAWN BY	KWR
TECH REVIEW	KAR
CHECKED BY	GBD

DRAWING TITLE

POTENTIOMETRIC SURFACE CONTOUR MAP AUGUST 24, 2020 PLANT GADSDEN ASH POND

FIGURE NO

FIGURE 6C

Southern Company

Tables

Table 1.
Groundwater Monitoring Well Network Details

Well Name	Purpose	Installation Date	Northing [1]	Easting [1]	Ground Elevation [2]	Top of Casing Elevation [2]	Well Depth (ft.) Below Top of Casing	Top of Screen Elevation [2,4]	Bottom of Screen Elevation [2,4]	Screen Length (ft)
GSD-AP-MW-1	Downgradient	8/8/2017	1279914.40	615079.93	523.48	526.37	27.79	509.08	499.08	10
GSD-AP-MW-2	Downgradient	8/10/2017	1280352.80	614599.21	523.04	526.16	28.17	508.49	498.49	10
GSD-AP-MW-3	Downgradient	8/11/2017	1280742.72	614102.00	523.68	526.80	27.45	509.85	499.85	10
GSD-AP-MW-4	Downgradient	7/15/2013	1281001.39	613884.36	517.27	520.60	26.27	504.83	494.83	10
GSD-AP-MW-5	Downgradient	8/15/2017	1281367.84	613584.86	513.26	516.27	26.88	499.89	489.89	10
GSD-AP-MW-6	Downgradient	8/3/2017	1281745.78	612969.64	512.09	515.23	26.25	499.48	489.48	10
GSD-AP-MW-7	Downgradient	7/16/2013	1281131.20	612627.76	517.05	519.86	30.30	500.06	490.06	10
GSD-AP-MW-8	Downgradient	8/2/2017	1280261.79	612527.24	516.02	519.22	32.68	497.04	487.04	10
GSD-AP-MW-9	Downgradient	7/16/2013	1279916.88	613123.38	517.41	520.36	35.19	495.67	485.67	10
GSD-AP-MW-10	Downgradient	8/3/2017	1279709.35	613729.63	527.70	530.91	48.42	492.99	482.99	10
GSD-AP-MW-11	Downgradient	7/17/2013	1279209.03	614235.25	514.18	517.01	34.00	492.51	482.51	10
GSD-AP-MW-12	Downgradient	7/17/2013	1279381.38	614989.08	518.73	521.82	31.75	500.57	490.57	10
GSD-AP-MW-14	Upgradient	3/27/2018	1277336.39	615233.22	545.49	548.34	32.84	525.50	516.00	10
GSD-AP-MW-16	Upgradient	9/20/2018	1277286.36	615079.67	553.08	555.83	36.23	530.10	520.10	10
GSD-AP-MW-17	Upgradient	9/24/2018	1277101.94	615157.25	546.88	550.11	62.78	497.83	487.83	10
GSD-AP-PZ-1 [3]	Downgradient	8/14/2017	1281425.06	614048.07	518.80	521.64	27.47	504.67	494.67	10
GSD-AP-PZ-2 [3]	Downgradient	8/16/2017	1281957.82	612944.02	513.46	516.49	23.94	503.05	493.05	10
GSD-AP-PZ-5 [3]	Downgradient	3/28/2018	1280939.08	614998.03	521.36	524.26	30.77	503.99	493.99	10
GSD-AP-PZ-6 [3]	Downgradient	3/28/2018	1280911.35	614555.89	516.69	519.60	22.35	507.75	497.75	10
GSD-AP-MW-2V [5]	Piezometer	10/24/2019	1280364.25	614608.05	522.90	525.31	62.41	472.90	462.90	10
GSD-AP-MW-2VA	Vertical Delineation	1/30/2020	1280385.77	614620.77	521.54	524.94	78.55	456.39	446.39	10
GSD-AP-MW-4V	Vertical Delineation	10/22/2019	1280986.06	613900.64	517.56	520.33	44.75	485.58	475.58	10
GSD-AP-MW-18H	Horizontal Delineation	10/24/2019	1280350.60	615161.03	522.28	524.45	27.60	506.85	496.85	10
GSD-AP-MW-19H	Horizontal Delineation	10/24/2019	1280656.67	614589.91	513.95	517.32	22.08	505.24	495.24	10
GSD-AP-MW-20H	Horizontal Delineation	10/24/2019	1281024.09	613927.12	514.28	516.68	20.29	506.39	496.39	10

Notes:
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 have been converted to downgradient compliance wells.
4. Top of screen and bottom of screen elevations are calculated relative to Top of Casing elevation and less the well sump length of 0.4’.
5. Location GSD-AP-MW-2V was orginially intended for vertical delineation but has been converted to a temporary piezometer due to low groundwater recharge.This location will be abandoned in th

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 AMSL)													
		12/4/2017	2/6/2018	2/9/2018	3/19/2018	3/28/2018	4/9/2018	4/23/2018	5/9/2018	5/16/2018	5/21/2018	5/23/2018	5/25/2018	5/31/2018	6/4/2018
GSD-AP-MW-1	526.37	513.72	514.90	515.77	517.56	517.24	516.72	517.40	516.17	515.59	515.20	515.13	515.05	514.81	514.65
GSD-AP-MW-2	526.16	513.78	514.70	515.20	516.58	516.30	515.95	516.38	515.53	515.11	514.82	514.82	514.73	514.60	514.46
GSD-AP-MW-3	526.80	513.81	514.75	515.11	515.92	515.73	515.41	516.19	514.95	514.64	514.43	514.61	514.46	514.50	514.26
GSD-AP-MW-4	520.60	513.76	514.69	515.01	515.76	515.59	515.27	516.05	514.83	514.51	514.32	514.55	514.38	514.45	514.18
GSD-AP-MW-5	516.27	510.81	511.80	512.14	512.25	512.09	511.85	512.49	511.46	511.22	511.12	511.32	511.24	511.24	511.09
GSD-AP-MW-6	515.23	509.89	510.60	510.88	510.72	510.59	510.36	511.08	510.16	510.02	509.97	510.15	510.06	510.10	509.98
GSD-AP-MW-7	519.86	507.66	508.62	509.44	509.33	509.14	508.62	509.52	508.85	508.67	508.49	508.61	508.55	508.34	508.39
GSD-AP-MW-8	519.22	506.85	506.90	508.22	506.94	507.09	506.60	508.02	507.99	507.84	507.96	508.03	507.85	507.70	508.20
GSD-AP-MW-9	520.36	505.87	506.86	508.09	506.98	507.04	506.60	507.85	507.99	507.88	508.01	508.01	507.88	507.74	508.20
GSD-AP-MW-10	530.91	509.82	509.68	510.06	509.78	509.25	509.14	509.75	509.61	509.55	509.56	509.64	509.52	509.56	509.52
GSD-AP-MW-11	517.01	507.46	507.93	508.88	507.96	507.98	507.59	508.66	508.43	508.24	508.27	508.35	508.21	508.07	508.39
GSD-AP-MW-12	521.82	511.62	513.11	513.83	513.99	513.71	513.20	514.13	512.81	512.33	511.87	512.12	511.94	512.73	511.60
GSD-AP-MW-14	548.34	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-16	555.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-17	550.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-PZ-1	521.64	512.46	514.59	516.13	517.26	517.01	516.42	517.21	515.69	514.88	514.30	514.40	514.26	514.01	513.76
GSD-AP-PZ-2	516.49	506.92	507.81	508.83	507.87	507.96	507.47	508.58	508.37	508.15	508.25	508.35	508.19	508.04	508.29
GSD-AP-PZ-5	524.26	--	--	--	--	--	516.71	--	515.97	515.11	514.46	514.59	514.43	514.16	513.87
GSD-AP-PZ-6	519.60	--	--	--	--	--	516.57	--	515.86	515.03	514.45	514.58	514.42	514.18	513.88
GSD-AP-MW-4V	520.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-18H	524.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-19H	517.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-20H	516.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-2V	525.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-2VA	524.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

Table 3.
Groundwater Elevations Summary

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)													
		6/7/2018	6/11/2018	6/14/2018	6/18/2018	6/21/2018	6/25/2018	6/28/2018	7/2/2018	7/5/2018	7/9/2018	7/12/2018	7/18/2018	7/19/2018	7/23/2018
GSD-AP-MW-1	526.37	514.49	514.27	514.14	513.94	513.83	513.69	513.61	513.51	513.44	513.30	513.21	--	513.03	512.90
GSD-AP-MW-2	526.16	514.32	514.12	514.00	513.83	513.73	513.63	513.55	513.49	513.40	513.30	513.21	--	513.05	512.93
GSD-AP-MW-3	526.80	514.11	513.91	513.86	513.67	513.61	513.55	513.51	513.48	513.37	513.26	513.17	--	513.05	512.92
GSD-AP-MW-4	520.60	514.02	513.85	513.71	513.60	513.56	513.46	513.45	513.41	513.29	513.17	513.09	--	512.98	512.85
GSD-AP-MW-5	516.27	510.88	510.66	510.41	510.52	510.60	510.60	510.83	510.81	510.49	510.18	509.95	--	510.06	509.68
GSD-AP-MW-6	515.23	509.85	509.61	509.46	509.72	509.73	509.72	509.90	509.89	509.67	509.32	509.13	--	509.27	508.86
GSD-AP-MW-7	519.86	508.33	508.18	508.05	507.92	508.01	507.90	507.87	507.97	507.82	507.71	507.65	--	507.58	507.42
GSD-AP-MW-8	519.22	507.87	507.69	507.68	507.86	507.84	507.88	507.55	507.79	507.81	507.43	507.69	--	507.54	507.39
GSD-AP-MW-9	520.36	507.91	507.70	507.72	507.90	507.88	507.90	507.60	507.83	507.83	507.48	507.73	--	507.59	507.45
GSD-AP-MW-10	530.91	509.44	509.31	509.26	509.43	509.51	509.56	509.41	509.51	509.41	509.26	509.24	--	509.23	509.10
GSD-AP-MW-11	517.01	508.19	507.98	507.95	508.03	508.09	508.09	507.86	508.03	507.99	507.73	507.85	--	507.74	507.62
GSD-AP-MW-12	521.82	511.43	511.20	511.06	510.92	510.89	510.80	510.75	510.75	510.61	510.47	510.35	--	510.24	510.07
GSD-AP-MW-14	548.34	--	--	--	--	--	526.46	--	--	--	--	--	526.24	--	--
GSD-AP-MW-16	555.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-17	550.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-PZ-1	521.64	513.50	513.23	513.00	512.73	512.65	512.43	512.40	512.24	512.08	511.89	511.73	511.47	511.49	511.26
GSD-AP-PZ-2	516.49	508.08	507.92	507.81	507.88	508.00	507.98	507.79	508.00	507.91	507.61	507.67	--	507.62	507.41
GSD-AP-PZ-5	524.26	513.61	513.38	513.18	512.91	512.85	512.60	512.52	512.39	512.24	512.06	511.92	511.72	511.67	511.46
GSD-AP-PZ-6	519.60	513.61	513.35	513.16	512.90	512.80	512.57	512.51	512.39	512.28	512.02	511.90	511.70	511.65	511.42
GSD-AP-MW-4V	520.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-18H	524.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-19H	517.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-20H	516.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-2V	525.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-2VA	524.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

Table 3.
Groundwater Elevations Summary

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)													
		7/26/2018	8/2/2018	8/6/2018	8/20/2018	8/23/2018	8/27/2018	8/30/2018	9/6/2018	9/10/2018	9/13/2018	9/20/2018	9/24/2018	9/27/2018	10/1/2018
GSD-AP-MW-1	526.37	512.81	512.90	512.90	512.69	512.63	512.54	512.48	512.27	512.17	512.08	511.88		511.81	512.02
GSD-AP-MW-2	526.16	512.85	513.01	513.03	512.78	512.71	512.61	512.54	512.36	512.25	512.16	511.97		512.05	512.23
GSD-AP-MW-3	526.80	512.83	513.38	513.09	512.88	512.82	512.67	512.60	512.42	512.30	512.23	512.05		512.53	512.55
GSD-AP-MW-4	520.60	512.77	513.42	513.08	512.86	512.79	514.66	512.57	512.38	512.28	512.19	512.01		512.63	512.58
GSD-AP-MW-5	516.27	509.48	510.79	510.60	510.62	510.32	510.00	509.79	509.37	509.25	509.21	508.88		510.63	510.63
GSD-AP-MW-6	515.23	508.68	510.15	509.85	509.81	509.61	509.26	509.11	508.68	508.56	508.56	508.21		510.16	509.95
GSD-AP-MW-7	519.86	507.33	507.82	507.96	507.92	507.85	507.68	507.54	507.24	507.15	507.11	506.97		507.68	507.98
GSD-AP-MW-8	519.22	507.48	508.25	507.98	507.76	507.78	507.70	507.79	507.77	507.61	507.74	507.75		508.30	507.81
GSD-AP-MW-9	520.36	507.54	508.25	508.06	507.76	507.82	507.70	507.84	507.79	507.66	507.79	507.82		508.28	507.86
GSD-AP-MW-10	530.91	509.04	509.96	509.81	509.35	509.32	509.19	509.18	509.09	509.05	509.10	509.09		509.54	509.55
GSD-AP-MW-11	517.01	507.64	508.55	508.26	507.93	507.95	507.89	507.92	507.88	507.74	507.82	507.84		508.48	508.14
GSD-AP-MW-12	521.82	509.93	511.43	510.99	510.70	510.54	510.35	510.24	510.00	509.79	509.69	509.68		510.31	510.57
GSD-AP-MW-14	548.34	--	--	526.24	--	--	--	--	526.00	--	--	--	525.80	--	--
GSD-AP-MW-16	555.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-17	550.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-PZ-1	521.64	511.10	511.48	511.38	511.18	511.11	510.87	510.74	510.46	510.29	510.18	509.86	509.63	510.16	510.48
GSD-AP-PZ-2	516.49	507.39	508.46	508.19	508.03	507.96	507.81	507.83	507.70	507.56	507.62	507.50	--	508.50	508.22
GSD-AP-PZ-5	524.26	511.31	511.54	511.42	511.24	511.11	510.98	510.88	510.62	510.44	510.36	510.07	509.95	510.12	
GSD-AP-PZ-6	519.60	511.28	511.60	511.44	511.26	511.15	510.98	510.89	510.61	510.45	510.34	509.93	509.91	510.19	
GSD-AP-MW-4V	520.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-18H	524.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-19H	517.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-20H	516.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-2V	525.31	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GSD-AP-MW-2VA	524.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

Table 3.
Groundwater Elevations Summary

Well Name	Top of Casing Elevation	Groundwater Elevation (ft AMSL)												
		10/4/2018	10/15/2018	10/22/2018	11/14/2018	11/28/2018	12/3/2018	12/18/2018	1/3/2019	2/4/2019	2/25/2019	6/10/2019	8/19/2019	4/13/2020	8/24/2020
GSD-AP-MW-1	526.37	511.94	511.70	511.57	--	--	513.12	--	--	517.76	519.26	514.50	511.97	517.91	512.36
GSD-AP-MW-2	526.16	512.12	511.84	511.73	--	--	513.15	--	--	516.64	518.15	514.30	512.01	516.67	512.37
GSD-AP-MW-3	526.80	512.39	512.03	511.90	--	--	513.50	--	--	515.98	517.38	514.21	512.03	516.42	512.48
GSD-AP-MW-4	520.60	512.40	512.03	511.89	--	--	513.54	--	--	515.78	517.13	514.13	512.00	515.99	512.57
GSD-AP-MW-5	516.27	510.40	509.76	509.64	--	--	511.52	--	--	512.09	513.01	511.13	508.72	512.38	510.36
GSD-AP-MW-6	515.23	509.78	509.17	509.05	--	--	510.58	--	--	510.70	511.64	510.02	507.89	511.28	509.81
GSD-AP-MW-7	519.86	507.94	507.76	507.54	--	--	509.41	--	--	509.82	513.85	508.34	506.95	510.09	507.64
GSD-AP-MW-8	519.22	507.90	507.62	507.37	--	--	508.98	--	--	508.46	511.45	507.78	507.62	509.16	507.98
GSD-AP-MW-9	520.36	507.93	507.63	507.39	--	--	508.69	--	--	508.46	511.42	507.83	507.61	508.71	508.06
GSD-AP-MW-10	530.91	509.39	509.03	508.97	--	--	509.66	--	--	509.93	511.87	509.34	508.74	509.73	509.13
GSD-AP-MW-11	517.01	508.07	507.77	507.53	--	--	509.29	--	--	509.06	511.67	508.12	507.59	509.18	507.99
GSD-AP-MW-12	521.82	510.38	509.87	509.64	--	--	512.76	--	--	514.11	515.43	511.29	508.94	514.20	509.66
GSD-AP-MW-14	548.34	--	--	525.80	--	--	526.19	--	--	527.65	528.71	527.07	526.25	528.26	526.07
GSD-AP-MW-16	555.83	--	--	529.67	529.34	529.51	529.75	529.98	530.52	531.32	531.98	530.55	529.71	531.91	529.60
GSD-AP-MW-17	550.11	--	--	531.30	530.47	530.50	530.77	531.44	532.49	532.25	534.03	531.23	530.30	532.80	530.65
GSD-AP-PZ-1	521.64	512.40	510.01	509.86	--	--	512.99	--	--	517.29	519.05	513.54	510.14	517.30	510.78
GSD-AP-PZ-2	516.49	508.16	507.79	507.51	--	--	509.29	--	--	509.02	511.33	508.15	507.31	509.12	508.13
GSD-AP-PZ-5	524.26	510.25	510.02	509.93	--	--	512.73	--	--	517.72	519.28	513.81	510.37	518.21	511.00
GSD-AP-PZ-6	519.60	510.33	510.06	509.95	--	--	513.05	--	--	517.43	518.72	513.82	510.30	517.75	510.99
GSD-AP-MW-4V	520.33	--	--	--	--	--	--	--	--	--	--	--	--	516.09	512.39
GSD-AP-MW-18H	524.45	--	--	--	--	--	--	--	--	--	--	--	--	518.59	511.07
GSD-AP-MW-19H	517.32	--	--	--	--	--	--	--	--	--	--	--	--	516.97	511.36
GSD-AP-MW-20H	516.68	--	--	--	--	--	--	--	--	--	--	--	--	516.28	512.47
GSD-AP-MW-2V	525.31	--	--	--	--	--	--	--	--	--	--	--	--	516.60	512.43
GSD-AP-MW-2VA	524.94	--	--	--	--	--	--	--	--	--	--	--	--	519.33	512.43

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured

Table 4.
Horizontal Groundwater Flow Velocity Calculations

2020 1st Semi-Annual Monitoring Event								
Date	**PZ-6** h_1 **(ft)**	**MW-10** 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)**
8/24/2020	510.99	509.13	1455.00	0.00128	12.33	0.20	0.079	28.8

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

Table 5.
Relative Percent Difference Calculations

2020 1st Semi-Annual Monitoring Event				
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-3	**GC-AP-MW-3DUP**	
Boron	mg/L	1.16	1.15	0.9
Calcium	mg/L	75.7	73.4	3.1
Chloride	mg/L	5.89	5.94	0.8
Sulfate	mg/L	246	276	11.5
TDS	mg/L	455	445	2.2
Barium	mg/L	0.0363	0.0362	0.3
Cobalt	mg/L	0.0191	0.0191	0.0
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-7	**GC-AP-MW-7 DUP**	
Calcium	mg/L	16.7	16.8	0.6
Chloride	mg/L	6.19	6.11	1.3
Sulfate	mg/L	9.19	8.93	2.9
TDS	mg/L	109	108	0.9
Barium	mg/L	0.0845	0.0833	1.4
Parameter	**Units**	**Monitoring Point Identification**		**Relative Percent Difference (RPD %)**
		GC-AP-MW-16	**GC-AP-MW-16 DUP**	
Calcium	mg/L	12.2	12.3	0.8
Chloride	mg/L	2.94	2.88	2.1
Sulfate	mg/L	74.1	79.1	6.5
TDS	mg/L	131	121	7.9
Barium	mg/L	0.0261	0.0257	1.5
Cobalt	mg/L	0.0294	0.0300	2.0

Table 6.
Summary of Background Levels and Groundwater Protection Standards

Analyte	Units	Background	GWPS
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.259	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.00101	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0538	0.056
Combined Radium-226/228	pCi/L	1.213	5
Fluoride	mg/L	0.23	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.000664	0.002
Molybdenum	mg/L	0.01	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	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)

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		Field Parameters				
WELL	**SAMPLE DATE**	**DO**	**ORP**	**Temperature**	**Conductivity**	**Turbidity**
UNITS		**mg/L**	**mv**	**C**	**uS/cm**	**NTU**
GSD-AP-MW-1	**8/25/2020**	0.13	68.12	18.21	1114.20	4.99
GSD-AP-MW-2	**8/25/2020**	0.14	-73.25	20.17	512.80	5.80
GSD-AP-MW-3	**8/26/2020**	0.22	142.16	20.74	628.30	1.83
GSD-AP-MW-4	**8/26/2020**	0.18	-92.61	20.20	336.17	4.78
GSD-AP-MW-5	**8/24/2020**	0.15	104.39	20.95	284.81	5.47
GSD-AP-MW-6	**8/26/2020**	0.18	68.47	19.84	149.86	2.74
GSD-AP-MW-7	**8/26/2020**	0.12	73.95	18.79	185.58	1.65
GSD-AP-MW-8	**8/26/2020**	0.13	-44.18	18.25	349.74	2.53
GSD-AP-MW-9	**8/26/2020**	0.17	-43.17	19.03	313.69	3.90
GSD-AP-MW-10	**8/26/2020**	0.12	-124.35	19.96	302.47	7.10
GSD-AP-MW-11	**8/26/2020**	0.11	-37.91	20.08	628.42	7.33
GSD-AP-MW-12	**8/26/2020**	0.11	69.12	18.79	579.07	1.46
GSD-AP-MW-14	**8/25/2020**	4.36	244.52	18.95	292.74	3.45
GSD-AP-MW-16	**8/25/2020**	4.67	212.33	19.33	254.18	3.23
GSD-AP-MW-17	**8/24/2020**	0.88	-81.75	23.20	282.97	9.38
GSD-AP-MW-18H	**8/25/2020**	7.46	150.16	17.07	179.89	2.87
GSD-AP-MW-19H	**8/26/2020**	0.08	-16.05	18.79	319.69	3.97
GSD-AP-MW-20H	**8/26/2020**	0.15	-0.98	19.76	446.93	5.79
GSD-AP-MW-2VA	**8/25/2020**	0.26	-164.54	21.07	534.26	3.28
GSD-AP-MW-4V	**8/26/2020**	0.10	-168.75	19.26	360.35	4.95
GSD-AP-PZ-1	**8/24/2020**	0.59	133.39	19.37	208.32	1.99
GSD-AP-PZ-2	**8/24/2020**	0.24	134.49	20.96	184.93	8.50
GSD-AP-PZ-5	**8/24/2020**	4.85	234.17	17.18	45.69	3.64
GSD-AP-PZ-6	**8/24/2020**	5.76	210.99	18.71	48.83	4.94

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. (+) J indicates trace or estimated concentration applied when field duplication precision limits are exceeded

4. 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.

5. TDS - Total Dissolved Solids

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX III						
WELL	**SAMPLE DATE**	**Boron**	**Calcium**	**Chloride**	**Fluoride**	**pH**	**Sulfate**	**TDS**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**SU**	**mg/L**	**mg/L**
GSD-AP-MW-1	**8/25/2020**	1.11	218	5.59	Non-Detect	6	642	1060
GSD-AP-MW-2	**8/25/2020**	0.528	80.5	2	0.273	6.65	114	339
GSD-AP-MW-3	**8/26/2020**	1.16	75.7	5.89	Non-Detect	5.87	246	455
GSD-AP-MW-4	**8/26/2020**	0.398	22.8	8.96	0.251	6.68	15.5	168
GSD-AP-MW-5	**8/24/2020**	0.329	35.5	6.64	0.0607(J)	6.11	21.2	175
GSD-AP-MW-6	**8/26/2020**	0.0633(J)	12.9	9.21	Non-Detect	5.96	13.1	91.3
GSD-AP-MW-7	**8/26/2020**	0.0665(J)	16.7	6.19	Non-Detect	6.11	9.19	109
GSD-AP-MW-8	**8/26/2020**	0.0501(J)	55.5	5.16	0.0732(J)	6.29	16.1	215
GSD-AP-MW-9	**8/26/2020**	0.0565(J)	43.2	6.57	0.13	6.75	12.9	192
GSD-AP-MW-10	**8/26/2020**	0.108	37.8	5.39	0.0997(J)	6.73	10.5	186
GSD-AP-MW-11	**8/26/2020**	0.257	111	4.74	Non-Detect	6.38	280	517
GSD-AP-MW-12	**8/26/2020**	0.0698(J)	68.4	5.91	Non-Detect	5.63	282	472
GSD-AP-MW-14	**8/25/2020**	Non-Detect	13.1	3.03	Non-Detect	4.03	98.4	160
GSD-AP-MW-16	**8/25/2020**	Non-Detect	12.2	2.94	0.0863(J)	4.2	74.1	131
GSD-AP-MW-17	**8/24/2020**	0.0303(J)	30.8	2.82	0.163	8.17	10	162
GSD-AP-MW-18H	**8/25/2020**	0.105	14.9	5.79	Non-Detect	5.13	52.6	107
GSD-AP-MW-19H	**8/26/2020**	0.39	39.3	7.03	Non-Detect	6.33	72.9	202
GSD-AP-MW-20H	**8/26/2020**	0.308	47.6	6.73	0.103	6.36	112	310
GSD-AP-MW-2VA	**8/25/2020**	0.552	4.97	6.4	2.4	8.43	4.83	321
GSD-AP-MW-4V	**8/26/2020**	0.0611(J)	23.5	5.37	0.217	7.83	1.21	239
GSD-AP-PZ-1	**8/24/2020**	Non-Detect	29	3.35	0.114	6.64	4.16	114
GSD-AP-PZ-2	**8/24/2020**	Non-Detect	24.8	5.46	Non-Detect	6	3.88	115
GSD-AP-PZ-5	**8/24/2020**	Non-Detect	2.94	3.96	Non-Detect	4.65	Non-Detect	42.7
GSD-AP-PZ-6	**8/24/2020**	Non-Detect	3.45	3.59	Non-Detect	5.38	1.31	37.3

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. (+) J indicates trace or estimated concentration applied when field duplication precision limits are exceeded

4. 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.

5. TDS - Total Dissolved Solids

Table 7.
First Semi-Annual Monitoring Event Analytical Summary

		APPENDIX IV						
WELL	**SAMPLE DATE**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Cadmium**	**Chromium**	**Cobalt**
UNITS		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GSD-AP-MW-1	**8/25/2020**	Non-Detect	0.00435(J)	0.0358	Non-Detect	Non-Detect	Non-Detect	0.0193
GSD-AP-MW-2	**8/25/2020**	Non-Detect	0.727	0.0812	Non-Detect	Non-Detect	Non-Detect	0.0298
GSD-AP-MW-3	**8/26/2020**	Non-Detect	Non-Detect	0.0363	Non-Detect	Non-Detect	Non-Detect	0.0191
GSD-AP-MW-4	**8/26/2020**	Non-Detect	0.0133	0.181	Non-Detect	Non-Detect	Non-Detect	0.0231
GSD-AP-MW-5	**8/24/2020**	Non-Detect	Non-Detect	0.238	Non-Detect	Non-Detect	Non-Detect	0.00222(J)
GSD-AP-MW-6	**8/26/2020**	Non-Detect	Non-Detect	0.0771	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	**8/26/2020**	Non-Detect	Non-Detect	0.0845	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	**8/26/2020**	Non-Detect	0.00304(J)	0.235	Non-Detect	Non-Detect	Non-Detect	0.00388(J)
GSD-AP-MW-9	**8/26/2020**	Non-Detect	Non-Detect	0.202	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	**8/26/2020**	Non-Detect	0.00422(J)	0.322	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	**8/26/2020**	Non-Detect	0.00246(J)	0.165	Non-Detect	Non-Detect	Non-Detect	0.00599
GSD-AP-MW-12	**8/26/2020**	Non-Detect	Non-Detect	0.0503	Non-Detect	0.000618(J)	Non-Detect	0.00547
GSD-AP-MW-14	**8/25/2020**	Non-Detect	0.002(J)	0.0291	0.00117(J)	0.000584(J)	Non-Detect	0.0365
GSD-AP-MW-16	**8/25/2020**	Non-Detect	0.00237(J)	0.0261	Non-Detect	0.000507(J)	Non-Detect	0.0294
GSD-AP-MW-17	**8/24/2020**	Non-Detect	Non-Detect	0.312	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-18H	**8/25/2020**	Non-Detect	Non-Detect	0.0388	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-19H	**8/26/2020**	Non-Detect	Non-Detect	0.201	Non-Detect	Non-Detect	Non-Detect	0.0101
GSD-AP-MW-20H	**8/26/2020**	Non-Detect	0.00186(J)	0.197	Non-Detect	Non-Detect	Non-Detect	0.0104
GSD-AP-MW-2VA	**8/25/2020**	Non-Detect	0.00135(J)	0.135	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4V	**8/26/2020**	Non-Detect	Non-Detect	0.534	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	**8/24/2020**	Non-Detect	Non-Detect	0.0733	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-2	**8/24/2020**	Non-Detect	Non-Detect	0.132	Non-Detect	Non-Detect	Non-Detect	0.00237(J)
GSD-AP-PZ-5	**8/24/2020**	Non-Detect	Non-Detect	0.0565	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	**8/24/2020**	Non-Detect	Non-Detect	0.031	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. (+) J indicates trace or estimated concentration applied when field duplication precision limits are exceeded

4. 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.

5. TDS - Total Dissolved Solids

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**
UNITS		**pCi/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
GSD-AP-MW-1	**8/25/2020**	0.502(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-2	**8/25/2020**	0.43(U)	0.273	Non-Detect	0.041	Non-Detect	0.0269	Non-Detect	0.000347(J)
GSD-AP-MW-3	**8/26/2020**	0.177(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	**8/26/2020**	0.26(U)	0.251	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	**8/24/2020**	0.482(U)	0.0607(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	**8/26/2020**	0.416(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	**8/26/2020**	0.691(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	**8/26/2020**	0.339(U)	0.0732(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	**8/26/2020**	1.18	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	**8/26/2020**	0.221(U)	0.0997(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	**8/26/2020**	1.28	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	**8/26/2020**	1.31	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-14	**8/25/2020**	0.976	Non-Detect	0.0018(J)	Non-Detect	Non-Detect	Non-Detect	0.00247(J)	Non-Detect
GSD-AP-MW-16	**8/25/2020**	0.851	0.0863(J)	0.0011(J)	Non-Detect	Non-Detect	Non-Detect	0.00262(J)	Non-Detect
GSD-AP-MW-17	**8/24/2020**	0.404(U)	0.163	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-18H	**8/25/2020**	1.45	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-19H	**8/26/2020**	0.265(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-20H	**8/26/2020**	0.413(U)	0.103	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-2VA	**8/25/2020**	0.807	2.4	Non-Detect	0.0666	Non-Detect	0.00323(J)	Non-Detect	Non-Detect
GSD-AP-MW-4V	**8/26/2020**	0.839	0.217	Non-Detect	0.0203	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	**8/24/2020**	0.177(U)	0.114	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-2	**8/24/2020**	-0.00312(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	**8/24/2020**	0.454(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	**8/24/2020**	0.404(U)	Non-Detect	Non-Detect	Non-Detect	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. (+) J indicates trace or estimated concentration applied when field duplication precision limits are exceeded

4. 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.

5. TDS - Total Dissolved Solids

Appendix A

Appendix A
Abbreviations

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. 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.
7. 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 Gadsden 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
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
GSD-AP-MW-1	12/6/2017	1.28	271	6.2	0.1	6.5	650	1300	Non-Detect	0.00179(J)	0.0807	Non-Detect	Non-Detect	Non-Detect	0.694	0.00818(J)	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	2/6/2018	1.29	275	5.9	0.08(J)	6.48	560	1310	Non-Detect	0.00191(J)	0.0546	Non-Detect	Non-Detect	Non-Detect	0.641	0.0123	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	4/23/2018	1.21	269	5.9	0.07(J)	6.36	640	1210	Non-Detect	0.0023(J)	0.0488	Non-Detect	Non-Detect	Non-Detect	-0.0527(U)	0.0204	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	6/26/2018	1.25	268	5.7	0.08(J)	6.32	670	1250	Non-Detect	0.00306(J)	0.0479	Non-Detect	Non-Detect	Non-Detect	0.162(U)	0.0224	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	8/7/2018	1.21	259	5.3	0.07(J)	6.32	660	1220	Non-Detect	0.00336(J)	0.0402	Non-Detect	Non-Detect	Non-Detect	0.87	0.0193	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	10/22/2018	1.22	240	5.6	0.07(J)	6.2	580	1150	Non-Detect	0.00451(J)	0.0427	Non-Detect	Non-Detect	Non-Detect	0.691	0.0243	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	12/4/2018	1.08	254	5.8	0.04(J)	6.31	580	1090	Non-Detect	0.00471(J)	0.0434	Non-Detect	Non-Detect	Non-Detect	0.213(U)	0.0166	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	2/5/2019	1.2	292	5.8	0.0525(J)	6.1	702	1200	Non-Detect	0.00365(J)	0.0439	Non-Detect	Non-Detect	Non-Detect	0.637	0.0264	0.0525(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	2/26/2019	1.15	254	5.92	Non-Detect	6.11	748	1210	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
GSD-AP-MW-1	8/21/2019	1.24	272	5.26	Non-Detect	6.01	708	1200	Non-Detect	0.00444(J)	0.037	Non-Detect	Non-Detect	Non-Detect	0.0242	0.643(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	4/15/2020	1.13	231	5.5	Non-Detect	5.65	647	1060	Non-Detect	0.00309(J)	0.0329	Non-Detect	Non-Detect	Non-Detect	0.0178	0.538(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-1	8/25/2020	1.11	218	5.59	Non-Detect	6	642	1060	Non-Detect	0.00435(J)	0.0358	Non-Detect	Non-Detect	Non-Detect	0.0193	0.502(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
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
GSD-AP-MW-2	12/6/2017	0.758	128	4.1	0.3	6.61	210	574	Non-Detect	0.809	0.0842	Non-Detect	Non-Detect	Non-Detect	0.772	0.0246	0.3	Non-Detect	0.092	Non-Detect	0.0254	Non-Detect	Non-Detect
GSD-AP-MW-2	2/6/2018	0.733	130	3.1	0.27	6.66	190	572	Non-Detect	0.774	0.0716	Non-Detect	Non-Detect	Non-Detect	0.679	0.0243	0.27	Non-Detect	0.0817	Non-Detect	0.0239	Non-Detect	Non-Detect
GSD-AP-MW-2	4/23/2018	0.608	95.9	3.7	0.19	6.54	140	414	Non-Detect	0.643	0.0518	Non-Detect	Non-Detect	Non-Detect	0.447(U)	0.0258	0.19	Non-Detect	0.051	Non-Detect	0.0165	Non-Detect	Non-Detect
GSD-AP-MW-2	6/27/2018	0.619	99.4	2.2	0.28	6.63	130	440	Non-Detect	1.01	0.0578	Non-Detect	Non-Detect	Non-Detect	0.117(U)	0.0362	0.28	Non-Detect	0.0734	Non-Detect	0.0302	Non-Detect	Non-Detect
GSD-AP-MW-2	8/7/2018	0.697	107	2.6	0.24	6.57	150	485	Non-Detect	0.988	0.0566	Non-Detect	Non-Detect	Non-Detect	1.22	0.0332	0.24	Non-Detect	0.0764	Non-Detect	0.0209	Non-Detect	Non-Detect
GSD-AP-MW-2	10/22/2018	0.754	107	2.8	0.24	6.55	160	484	Non-Detect	1.01	0.0536	Non-Detect	Non-Detect	Non-Detect	0.996	0.0438	0.24	Non-Detect	0.0804	Non-Detect	0.0198	Non-Detect	0.000213(J)
GSD-AP-MW-2	12/4/2018	0.737	120	4.1	0.15	6.52	170	504	Non-Detect	0.553	0.0589	Non-Detect	Non-Detect	Non-Detect	0.739	0.0252	0.15	Non-Detect	0.0474	Non-Detect	0.0118	Non-Detect	Non-Detect
GSD-AP-MW-2	2/5/2019	0.575	80.6	2.56	0.207	6.47	145	366	Non-Detect	0.74	0.0418	Non-Detect	Non-Detect	Non-Detect	1.09	0.0362	0.207	Non-Detect	0.0545	Non-Detect	0.0196	Non-Detect	0.000256(J)
GSD-AP-MW-2	2/26/2019	0.566	79.6	3.03	0.264	6.54	148	372	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.264	n/a	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-2	8/20/2019	0.566	92.3	2.24	0.252	6.3	110	369	Non-Detect	0.825	0.0685	Non-Detect	Non-Detect	Non-Detect	0.553(U)	0.0366	0.252	Non-Detect	0.0583	Non-Detect	0.027	Non-Detect	0.000322(J)
GSD-AP-MW-2	4/15/2020	0.461	69.2	2.16	0.21	6.45	116	300	Non-Detect	0.709	0.0607	Non-Detect	Non-Detect	Non-Detect	0.0324	0.182(U)	0.21	Non-Detect	0.0406	Non-Detect	0.0202	Non-Detect	0.000318(J)
GSD-AP-MW-2	8/25/2020	0.528	80.5	2	0.273	6.65	114	339	Non-Detect	0.727	0.0812	Non-Detect	Non-Detect	Non-Detect	0.0298	0.43(U)	0.273	Non-Detect	0.041	Non-Detect	0.0269	Non-Detect	0.000347(J)

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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
GSD-AP-MW-3	12/6/2017	0.959	125	7.6	0.13	6.54	250	628	Non-Detect	0.00101(J)	0.126	Non-Detect	Non-Detect	Non-Detect	0.643	0.0302	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	2/6/2018	1.04	110	7.6	0.08(J)	6.39	230	556	Non-Detect	Non-Detect	0.0721	Non-Detect	Non-Detect	Non-Detect	0.209(U)	0.0371	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	4/24/2018	0.979	88.8	7.5	0.05(J)	6.02	260	510	Non-Detect	Non-Detect	0.0492	Non-Detect	Non-Detect	Non-Detect	0.596	0.0251	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	6/27/2018	0.982	80.8	7.3	0.07(J)	6.07	230	486	Non-Detect	Non-Detect	0.0453	Non-Detect	Non-Detect	Non-Detect	0.363(U)	0.0234	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	8/7/2018	1	88.5	7.6	0.09(J)	6.28	200	487	Non-Detect	Non-Detect	0.0431	Non-Detect	Non-Detect	Non-Detect	0.788	0.0223	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	10/22/2018	1.08	92.7	6.9	0.11	6.3	190	450	Non-Detect	Non-Detect	0.0541	Non-Detect	Non-Detect	Non-Detect	0.749	0.03	0.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	12/3/2018	1.05	105	6.8	0.08(J)	6.38	200	492	Non-Detect	Non-Detect	0.0545	Non-Detect	Non-Detect	Non-Detect	0.749	0.0238	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	2/5/2019	1.01	68.6	6.95	0.064(J)	5.83	263	428	Non-Detect	Non-Detect	0.0363	Non-Detect	Non-Detect	Non-Detect	0.299(U)	0.0232	0.064(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	2/25/2019	1.08	70.6	6.55	Non-Detect	5.93	246	441	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
GSD-AP-MW-3	8/20/2019	1.06	74.1	6.07	0.0592(J)	5.73	222	416	Non-Detect	Non-Detect	0.0405	Non-Detect	Non-Detect	Non-Detect	0.709(U)	0.0257	0.0592(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	4/13/2020	1.19	69.5	5.95	Non-Detect	5.83	256	433	Non-Detect	Non-Detect	0.0349	Non-Detect	0.000438(J)	Non-Detect	0.0209	0.942(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-3	8/26/2020	1.16	75.7	5.89	Non-Detect	5.87	246	455	Non-Detect	Non-Detect	0.0363	Non-Detect	Non-Detect	Non-Detect	0.0191	0.177(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
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
GSD-AP-MW-4	12/7/2017	0.515	30.1	8.5	0.25	6.73	Non-Detect	189	Non-Detect	0.0132	0.239	Non-Detect	Non-Detect	Non-Detect	1.04	0.0252	0.25	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	2/6/2018	0.541	30.6	8.8	0.24	6.76	Non-Detect	206	Non-Detect	0.0105	0.206	Non-Detect	Non-Detect	Non-Detect	0.989	0.0243	0.24	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	4/24/2018	0.475	27.8	8.4	0.2	6.66	Non-Detect	193	Non-Detect	0.0124	0.217	Non-Detect	Non-Detect	Non-Detect	0.405(U)	0.027	0.2	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	6/26/2018	0.444	26.2	8.7	0.22	6.61	Non-Detect	180	Non-Detect	0.0132	0.208	Non-Detect	Non-Detect	Non-Detect	1.03	0.0242	0.22	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	8/6/2018	0.474	27.5	11	0.22	6.68	Non-Detect	182	Non-Detect	0.013	0.189	Non-Detect	Non-Detect	Non-Detect	0.622	0.0205	0.22	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	10/22/2018	0.496	27.7	8.6	0.24	6.63	Non-Detect	204	Non-Detect	0.0144	0.209	Non-Detect	Non-Detect	Non-Detect	1.06	0.0259	0.24	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	12/3/2018	0.51	32.3	9.1	0.22	6.67	Non-Detect	168	Non-Detect	0.0119	0.214	Non-Detect	Non-Detect	Non-Detect	0.697	0.0228	0.22	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	2/5/2019	0.43	25.5	9.81	0.259	6.63	5.38	158	Non-Detect	0.0107	0.173	Non-Detect	Non-Detect	Non-Detect	0.467(U)	0.0263	0.259	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	2/26/2019	0.411	26.4	13	0.246	6.64	5.1	191	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.246	n/a	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-4	8/20/2019	0.399	23.5	9.62	0.197	6.33	7.34	164	Non-Detect	0.0141	0.188	Non-Detect	Non-Detect	Non-Detect	0.814	0.0293	0.197	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	4/15/2020	0.344	22	9.27	0.238	6.77	17.2	170	Non-Detect	0.0121	0.159	Non-Detect	Non-Detect	Non-Detect	0.0252	-0.0841(U)	0.238	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4	8/26/2020	0.398	22.8	8.96	0.251	6.68	15.5	168	Non-Detect	0.0133	0.181	Non-Detect	Non-Detect	Non-Detect	0.0231	0.26(U)	0.251	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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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
GSD-AP-MW-5	12/7/2017	0.566	48.2	8.7	0.06(J)	6.32	19	215	Non-Detect	Non-Detect	0.279	Non-Detect	Non-Detect	Non-Detect	0.885	0.00331(J)	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	2/6/2018	0.614	47.8	8.5	0.05(J)	6.27	20	204	Non-Detect	Non-Detect	0.195	Non-Detect	Non-Detect	Non-Detect	0.524	0.00323(J)	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	4/25/2018	0.498	41.8	7.6	0.05(J)	6.14	22	192	Non-Detect	Non-Detect	0.26	Non-Detect	Non-Detect	Non-Detect	0.341(U)	0.00258(J)	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	6/27/2018	0.446	36.9	7.1	0.06(J)	6.15	18	180	Non-Detect	Non-Detect	0.249	Non-Detect	Non-Detect	Non-Detect	0.546	0.00218(J)	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	8/7/2018	0.442	37.6	6.9	0.06(J)	6.18	20	183	Non-Detect	Non-Detect	0.216	Non-Detect	Non-Detect	Non-Detect	1.09	Non-Detect	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	10/23/2018	0.436	35.3	6.7	0.07(J)	6.15	18	169	Non-Detect	Non-Detect	0.26	Non-Detect	Non-Detect	Non-Detect	1.01	0.0023(J)	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	12/5/2018	0.456	36.3	6.7	0.04(J)	6.15	20	177	Non-Detect	Non-Detect	0.245	Non-Detect	Non-Detect	Non-Detect	0.876	0.00233(J)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	2/5/2019	0.453	36.6	7.24	0.0651(J)	6.08	24.3	198	Non-Detect	Non-Detect	0.215	Non-Detect	Non-Detect	Non-Detect	0.551(U)	0.0021(J)	0.0651(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	2/27/2019	0.457	39.6	7.38	0.0578(J)	6.11	24.7	185	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.0578(J)	n/a	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-5	8/20/2019	0.378	33.7	6.53	0.0567(J)	6.11	21.3	174	Non-Detect	Non-Detect	0.238	Non-Detect	Non-Detect	Non-Detect	0.206(U)	0.00223(J)	0.0567(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	4/13/2020	0.359	43	6.48	0.0688(J)	6.18	21.9	192	Non-Detect	Non-Detect	0.241	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.19	0.0688(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-5	8/24/2020	0.329	35.5	6.64	0.0607(J)	6.11	21.2	175	Non-Detect	Non-Detect	0.238	Non-Detect	Non-Detect	Non-Detect	0.00222(J)	0.482(U)	0.0607(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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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
GSD-AP-MW-6	12/7/2017	0.063(J)	29.8	10	0.06(J)	6.38	10	136	Non-Detect	Non-Detect	0.0809	Non-Detect	Non-Detect	Non-Detect	0.394(U)	0.00592(J)	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	2/8/2018	0.0508(J)	24.3	9.5	0.04(J)	6.29	11	122	Non-Detect	Non-Detect	0.0566	Non-Detect	Non-Detect	Non-Detect	0.489	0.00297(J)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	4/25/2018	0.0548(J)	19.8	9.1	0.04(J)	6.15	13	102	Non-Detect	Non-Detect	0.0553	Non-Detect	Non-Detect	Non-Detect	-0.0902(U)	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	6/26/2018	0.0571(J)	17.8	9.5	0.05(J)	6.09	11	106	Non-Detect	Non-Detect	0.0604	Non-Detect	Non-Detect	Non-Detect	0.245(U)	Non-Detect	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	8/7/2018	0.0571(J)	18.3	9	0.05(J)	6.16	12	71.3	Non-Detect	Non-Detect	0.0542	Non-Detect	Non-Detect	Non-Detect	0.439(U)	Non-Detect	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	10/23/2018	0.0636(J)	18.1	9.9	0.06(J)	6.1	11	105	Non-Detect	Non-Detect	0.0608	Non-Detect	Non-Detect	Non-Detect	0.243(U)	Non-Detect	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	12/3/2018	0.0568(J)	16.6	8.7	Non-Detect	6.09	12	102	Non-Detect	Non-Detect	0.0633	Non-Detect	Non-Detect	Non-Detect	0.304(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	2/5/2019	0.0509(J)	14.5	8.73	0.0581(J)	6.04	13.9	107	Non-Detect	Non-Detect	0.551	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.196(U)	0.0581(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	2/26/2019	0.0527(J)	16	8.66	0.0816(J)	6.17	14.1	99.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.0816(J)	n/a	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-6	8/20/2019	0.0608(J)	15.1	9.55	Non-Detect	5.4	12.3	98.7	Non-Detect	Non-Detect	0.0731	Non-Detect	Non-Detect	Non-Detect	-0.086(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	4/13/2020	0.0561(J)	12.5	8.6	Non-Detect	5.82	13.9	90.7	Non-Detect	Non-Detect	0.0635	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.0901(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-6	8/26/2020	0.0633(J)	12.9	9.21	Non-Detect	5.96	13.1	91.3	Non-Detect	Non-Detect	0.0771	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.416(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
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
GSD-AP-MW-7	12/7/2017	0.102	23.4	7.9	0.09(J)	6.62	14	137	Non-Detect	Non-Detect	0.083	Non-Detect	Non-Detect	Non-Detect	0.895	Non-Detect	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	2/8/2018	0.0787(J)	20.1	6.7	0.07(J)	6.39	10	124	Non-Detect	Non-Detect	0.0756	Non-Detect	Non-Detect	Non-Detect	0.322(U)	Non-Detect	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	4/25/2018	0.0734(J)	17.4	7	0.07(J)	6.17	11	106	Non-Detect	Non-Detect	0.0764	Non-Detect	Non-Detect	Non-Detect	0.0097(U)	Non-Detect	0.07(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	6/26/2018	0.094(J)	21.8	7.4	0.09(J)	6.38	11	129	Non-Detect	Non-Detect	0.0799	Non-Detect	Non-Detect	Non-Detect	0.587	Non-Detect	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	8/8/2018	0.103	25.4	7.7	0.1	6.56	13	142	Non-Detect	Non-Detect	0.0791	Non-Detect	Non-Detect	Non-Detect	0.364(U)	Non-Detect	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	10/23/2018	0.106	25.6	8	0.1	6.54	13	142	Non-Detect	Non-Detect	0.0898	Non-Detect	Non-Detect	Non-Detect	0.703	Non-Detect	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	12/4/2018	0.085(J)	19	6.7	0.06(J)	6.33	9.8	121	Non-Detect	Non-Detect	0.0789	Non-Detect	Non-Detect	Non-Detect	0.325(U)	Non-Detect	0.06(J)	Non-Detect	Non-Detect	0.00034(J)	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	2/6/2019	0.0733(J)	16.4	6.84	Non-Detect	6.13	10.8	108	Non-Detect	Non-Detect	0.0685	Non-Detect	Non-Detect	Non-Detect	0.0774(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	2/27/2019	0.0548(J)	15.6	6.21	0.0824(J)	6.12	8.98	103	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.0824(J)	n/a	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-7	8/21/2019	0.091(J)	23.5	7.35	0.068(J)	5.97	11.8	133	Non-Detect	Non-Detect	0.0946	Non-Detect	Non-Detect	Non-Detect	-0.0134(U)	Non-Detect	0.068(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	4/15/2020	0.0534(J)	14	4.99	0.0775(J)	6.16	7.95	102	Non-Detect	Non-Detect	0.0653	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.526(U)	0.0775(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-7	8/26/2020	0.0665(J)	16.7	6.19	Non-Detect	6.11	9.19	109	Non-Detect	Non-Detect	0.0845	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.691(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
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
GSD-AP-MW-8	12/7/2017	0.0828(J)	66.1	5.2	0.14	6.81	6.5	253	Non-Detect	0.00313(J)	0.244	Non-Detect	Non-Detect	Non-Detect	7.45(o)	0.00212(J)	0.14	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	2/8/2018	0.0691(J)	58	4.1	0.11	6.73	8.9	229	Non-Detect	0.00247(J)	0.135	Non-Detect	Non-Detect	Non-Detect	0.549	Non-Detect	0.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	4/25/2018	0.0571(J)	56.3	5.3	0.09(J)	6.61	7.9	223	Non-Detect	0.00291(J)	0.224	Non-Detect	Non-Detect	Non-Detect	0.65	0.00204(J)	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	6/26/2018	0.0634(J)	57.7	5	0.1	6.59	7.5	232	Non-Detect	0.00265(J)	0.181	Non-Detect	Non-Detect	Non-Detect	0.436(U)	Non-Detect	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	8/8/2018	0.0659(J)	51.2	4.8	0.1	6.6	7.3	208	Non-Detect	0.00203(J)	0.134	Non-Detect	Non-Detect	Non-Detect	0.486(U)	Non-Detect	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	10/23/2018	0.0666(J)	50.9	4.4	0.11	6.64	7.8	209	Non-Detect	0.00246(J)	0.17	Non-Detect	Non-Detect	Non-Detect	0.319(U)	Non-Detect	0.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	12/4/2018	0.0617(J)	51.9	4.2	0.08(J)	6.68	8.2	213	Non-Detect	0.00328(J)	0.189	Non-Detect	Non-Detect	Non-Detect	0.875	Non-Detect	0.08(J)	Non-Detect	Non-Detect	0.000284(J)	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	2/6/2019	0.0586(J)	55	5.84	Non-Detect	6.62	9.53	212	Non-Detect	0.00325(J)	0.226	Non-Detect	Non-Detect	Non-Detect	0.378(U)	0.00232(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	2/27/2019	0.0428(J)	53.4	6.52	0.108	6.56	8.25	211	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.108	n/a	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-8	8/21/2019	0.0569(J)	71.5	5.89	0.0648(J)	6.16	10.8	226	Non-Detect	0.00302(J)	0.194	Non-Detect	Non-Detect	Non-Detect	0.552(U)	0.00303(J)	0.0648(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	4/14/2020	0.0474(J)	56.2	5.21	0.0845(J)	6.49	12.5	222	Non-Detect	0.00295(J)	0.262	Non-Detect	Non-Detect	Non-Detect	0.00385(J)	0.641(U)	0.0845(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-8	8/26/2020	0.0501(J)	55.5	5.16	0.0732(J)	6.29	16.1	215	Non-Detect	0.00304(J)	0.235	Non-Detect	Non-Detect	Non-Detect	0.00388(J)	0.339(U)	0.0732(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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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
GSD-AP-MW-9	12/7/2017	0.0614(J)	38.7	7	0.12	6.93	9	183	Non-Detect	0.00112(J)	0.187	Non-Detect	Non-Detect	Non-Detect	0.226(U)	Non-Detect	0.12	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	2/8/2018	0.0531(J)	38.8	n/a	n/a	6.96	n/a	n/a	Non-Detect	Non-Detect	0.148	Non-Detect	Non-Detect	Non-Detect	0.071(U)	Non-Detect	n/a	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	2/12/2018	n/a	n/a	6.6	0.11	6.88	8.3	201	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
GSD-AP-MW-9	4/25/2018	0.0551(J)	40.3	7.1	0.12	6.89	12	180	Non-Detect	Non-Detect	0.158	Non-Detect	Non-Detect	Non-Detect	0.569	Non-Detect	0.12	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	6/26/2018	0.0568(J)	39.9	6.4	0.13	6.85	8.5	191	Non-Detect	Non-Detect	0.16	Non-Detect	Non-Detect	Non-Detect	0.43(U)	Non-Detect	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	8/8/2018	0.0524(J)	42.3	5.5	0.12	6.94	6.7	192	Non-Detect	Non-Detect	0.161	Non-Detect	Non-Detect	Non-Detect	0.656	Non-Detect	0.12	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	10/23/2018	0.0576(J)	39.8	6.7	0.13	6.93	9.4	185	Non-Detect	Non-Detect	0.183	Non-Detect	Non-Detect	Non-Detect	0.395(U)	Non-Detect	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	12/5/2018	0.0561(J)	43.8	5.9	0.04(J)	6.94	7.8	200	Non-Detect	0.00111(J)	0.186	Non-Detect	Non-Detect	Non-Detect	0.52(U)	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	2/6/2019	0.0627(J)	34.9	7.26	Non-Detect	6.73	17	151	Non-Detect	Non-Detect	0.128	Non-Detect	Non-Detect	Non-Detect	0.244(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	2/27/2019	0.0474(J)	42.5	6.77	0.147	6.85	12.4	186	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.147	n/a	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-9	8/21/2019	0.0524(J)	50.9	6.16	0.0984(J)	6.61	11.3	200	Non-Detect	Non-Detect	0.183	Non-Detect	Non-Detect	Non-Detect	1.53(U)	Non-Detect	0.0984(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	4/14/2020	0.0562(J)	43.6	7.27	0.133	7.02	15.9	187	Non-Detect	0.00118(J)	0.186	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.119(U)	0.133	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-9	8/26/2020	0.0565(J)	43.2	6.57	0.13	6.75	12.9	192	Non-Detect	Non-Detect	0.202	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.18	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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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
GSD-AP-MW-10	12/6/2017	0.135	42	6.9	0.09(J)	6.83	11	215	Non-Detect	0.00247(J)	0.308	Non-Detect	Non-Detect	Non-Detect	0.585	Non-Detect	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	2/7/2018	0.12	47.6	6.1	0.08(J)	6.82	19	237	Non-Detect	0.00192(J)	0.289	Non-Detect	Non-Detect	Non-Detect	0.474	Non-Detect	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	4/24/2018	0.144	50.1	6.9	0.08(J)	6.74	27	242	Non-Detect	0.00218(J)	0.359	Non-Detect	Non-Detect	Non-Detect	0.463(U)	Non-Detect	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	6/27/2018	0.0903(J)	37.1	5.6	0.09(J)	6.67	Non-Detect	194	Non-Detect	0.00419(J)	0.307	Non-Detect	Non-Detect	Non-Detect	0.678	Non-Detect	0.09(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	8/7/2018	0.106	37.4	5.1	0.04(J)	6.72	Non-Detect	195	Non-Detect	0.00365(J)	0.25	Non-Detect	Non-Detect	Non-Detect	0.495(U)	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	10/22/2018	0.107	36.3	5.5	0.1	6.73	Non-Detect	184	Non-Detect	0.00404(J)	0.29	Non-Detect	Non-Detect	Non-Detect	0.36(U)	Non-Detect	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	12/4/2018	0.103	42.1	5.6	0.07(J)	6.77	11	215	Non-Detect	0.00332(J)	0.305	Non-Detect	Non-Detect	Non-Detect	0.407(U)	Non-Detect	0.07(J)	Non-Detect	Non-Detect	0.000302(J)	Non-Detect	Non-Detect
GSD-AP-MW-10	2/6/2019	0.105	41.3	6.24	0.107	6.67	16.8	208	Non-Detect	0.00333(J)	0.265	Non-Detect	Non-Detect	Non-Detect	0.537	Non-Detect	0.107	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	2/26/2019	0.146	53.3	8.28	0.0813(J)	6.77	38.4	252	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.0813(J)	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-10	8/22/2019	0.0951(J)	38.5	5.66	0.084(J)	6.37	6.74	194	Non-Detect	0.00394(J)	0.302	Non-Detect	Non-Detect	Non-Detect	-0.021(U)	Non-Detect	0.084(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	4/15/2020	0.164	54.1	6.49	0.112	6.85	50.7	262	Non-Detect	0.00236(J)	0.35	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.64(U)	0.112	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-10	8/26/2020	0.108	37.8	5.39	0.0997(J)	6.73	10.5	186	Non-Detect	0.00422(J)	0.322	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.221(U)	0.0997(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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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
GSD-AP-MW-11	12/6/2017	0.12	70	6.3	0.06(J)	6.81	83	312	Non-Detect	0.00279(J)	0.349	Non-Detect	Non-Detect	Non-Detect	0.891	Non-Detect	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	2/7/2018	0.109	72.4	5.4	0.05(J)	6.74	84	323	Non-Detect	0.00252(J)	0.297	Non-Detect	Non-Detect	Non-Detect	0.786	Non-Detect	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	4/24/2018	0.124	72.3	5.7	0.05(J)	6.62	98	324	Non-Detect	0.00283(J)	0.338	Non-Detect	Non-Detect	Non-Detect	0.935	Non-Detect	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	6/27/2018	0.111	73.1	5.4	0.06(J)	6.69	95	333	Non-Detect	0.00289(J)	0.338	Non-Detect	Non-Detect	Non-Detect	0.537	Non-Detect	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	8/8/2018	0.135	76	5.2	0.06(J)	6.67	110	346	Non-Detect	0.00265(J)	0.307	Non-Detect	Non-Detect	Non-Detect	1.28	Non-Detect	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	10/23/2018	0.114	70.2	5.4	0.06(J)	6.73	78	311	Non-Detect	0.00287(J)	0.311	Non-Detect	Non-Detect	Non-Detect	1.3	Non-Detect	0.06(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	12/4/2018	0.124	74	5.3	Non-Detect	6.67	97	343	Non-Detect	0.00271(J)	0.331	Non-Detect	Non-Detect	Non-Detect	1.05	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	2/6/2019	0.112	73.1	5.89	0.0678(J)	6.58	113	317	Non-Detect	0.00272(J)	0.286	Non-Detect	Non-Detect	Non-Detect	0.779	Non-Detect	0.0678(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	2/27/2019	0.14	82.2	6.2	0.0985(J)	6.56	135	360	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.0985(J)	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-11	8/22/2019	0.272	133	4.64	Non-Detect	6.26	305	555	Non-Detect	0.00229(J)	0.214	Non-Detect	Non-Detect	Non-Detect	1.34(U)	0.00756	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	4/14/2020	0.154	82.4	5.46	0.0878(J)	6.63	146	372	Non-Detect	0.00286(J)	0.168	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.922(U)	0.0878(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-11	8/26/2020	0.257	111	4.74	Non-Detect	6.38	280	517	Non-Detect	0.00246(J)	0.165	Non-Detect	Non-Detect	Non-Detect	0.00599	1.28	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
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
GSD-AP-MW-12	12/6/2017	0.0605(J)	49	6.2	Non-Detect	5.6	200	371	Non-Detect	Non-Detect	0.0501	Non-Detect	0.000596(J)	Non-Detect	0.435(U)	0.00221(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	2/8/2018	0.0527(J)	50	6.1	Non-Detect	5.44	200	367	Non-Detect	Non-Detect	0.0375	Non-Detect	0.00064(J)	Non-Detect	0.477	0.00221(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	4/24/2018	0.0476(J)	50.5	5.9	Non-Detect	5.41	210	365	Non-Detect	Non-Detect	0.0405	Non-Detect	0.000702(J)	Non-Detect	0.695	0.00257(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	6/27/2018	0.0539(J)	56.3	5.5	Non-Detect	5.45	240	421	Non-Detect	Non-Detect	0.0466	Non-Detect	0.000732(J)	Non-Detect	0.183(U)	0.00266(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	8/8/2018	0.0637(J)	65.7	5.3	Non-Detect	5.46	260	479	Non-Detect	Non-Detect	0.0448	Non-Detect	0.000587(J)	Non-Detect	0.817	0.00251(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	10/23/2018	0.0696(J)	68.3	5.8	0.04(J)	5.47	280	507	Non-Detect	Non-Detect	0.054	Non-Detect	0.000552(J)	Non-Detect	0.796	0.00399(J)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	12/5/2018	0.0652(J)	64.3	6	Non-Detect	5.45	280	479	Non-Detect	Non-Detect	0.0493	Non-Detect	0.000661(J)	Non-Detect	0.498(U)	0.00466(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	2/6/2019	0.0511(J)	52.2	5.95	Non-Detect	5.31	239	399	Non-Detect	Non-Detect	0.036	Non-Detect	0.000583(J)	Non-Detect	0.00485(J)	-0.0241(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	2/27/2019	0.0494(J)	60.2	5.88	Non-Detect	5.4	257	422	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
GSD-AP-MW-12	8/22/2019	0.0625(J)	89.4	6.31	Non-Detect	5.35	339	501	Non-Detect	Non-Detect	0.0455	Non-Detect	0.000755(J)	Non-Detect	0.145(U)	0.00658	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	4/14/2020	0.0377(J)	40	5.74	Non-Detect	5.39	155	278	Non-Detect	Non-Detect	0.0279	Non-Detect	0.000425(J)	Non-Detect	0.0035(J)	0.643(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-12	8/26/2020	0.0698(J)	68.4	5.91	Non-Detect	5.63	282	472	Non-Detect	Non-Detect	0.0503	Non-Detect	0.000618(J)	Non-Detect	0.00547	1.31	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
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
GSD-AP-MW-14	6/27/2018	Non-Detect	16.6	3.1	0.18	3.95	120	219	Non-Detect	0.00165(J)	0.0338	0.00134(J)	0.00064(J)	Non-Detect	0.616	0.0382	0.18	0.00158(J)	Non-Detect	0.000661	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-14	7/18/2018	Non-Detect	15.3	3.4	0.23	4.02	120	195	Non-Detect	0.00117(J)	0.03	0.00133(J)	0.000679(J)	Non-Detect	0.859	0.0366	0.23	0.00152(J)	Non-Detect	0.000398(J)	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-14	8/6/2018	Non-Detect	13.8	2.8	0.23	4.07	110	175	Non-Detect	Non-Detect	0.0274	0.00129(J)	0.000536(J)	Non-Detect	0.654	0.0308	0.23	0.00143(J)	Non-Detect	0.00042(J)	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-14	9/5/2018	Non-Detect	12.1	2.8	0.22	4.07	86	153	Non-Detect	Non-Detect	0.0275	0.00106(J)	0.000479(J)	Non-Detect	0.855	0.0291	0.22	0.00118(J)	Non-Detect	0.00037(J)	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-14	9/24/2018	Non-Detect	11.8	3.1	0.2	4.07	80	127	Non-Detect	0.00148(J)	0.0264	0.000991(J)	0.00039(J)	Non-Detect	0.787	0.0286	0.2	0.00156(J)	Non-Detect	0.000329(J)	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-14	10/24/2018	Non-Detect	10.2	2.8	0.14	4.1	68	125	Non-Detect	Non-Detect	0.0276	0.00082(J)	0.000436(J)	Non-Detect	1.14	0.0269	0.14	0.00121(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-14	12/5/2018	Non-Detect	9.14	2.2	0.07(J)	4.1	54	101	Non-Detect	Non-Detect	0.0256	0.00141(J)	0.000307(J)	Non-Detect	0.64	0.0215	0.07(J)	0.00117(J)	Non-Detect	0.000253(J)	Non-Detect	0.00208(J)	Non-Detect
GSD-AP-MW-14	2/5/2019	Non-Detect	15.1	3.12	Non-Detect	4.02	126	180	Non-Detect	0.00119(J)	0.0314	0.0011(J)	0.000515(J)	Non-Detect	0.873	0.0359	Non-Detect	0.00156(J)	Non-Detect	0.000664	Non-Detect	0.00387(J)	Non-Detect
GSD-AP-MW-14	2/28/2019	Non-Detect	21.4	3.45	Non-Detect	3.94(E)	207	287	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
GSD-AP-MW-14	8/20/2019	Non-Detect	14.4	3.27	Non-Detect	4	106	265	Non-Detect	0.00216(J)	0.0274	0.00129(J)	0.000622(J)	Non-Detect	0.0391	0.774	Non-Detect	0.00176(J)	Non-Detect	0.000301(J)	Non-Detect	0.00328(J)	Non-Detect
GSD-AP-MW-14	4/16/2020	Non-Detect	20.1	3.74	Non-Detect	3.93	191	280	Non-Detect	0.00483(J)	0.0327	0.00157(J)	0.00101	Non-Detect	0.056	0.865	Non-Detect	0.00258(J)	Non-Detect	0.000558	Non-Detect	0.00608(J)	Non-Detect
GSD-AP-MW-14	8/25/2020	Non-Detect	13.1	3.03	Non-Detect	4.03	98.4	160	Non-Detect	0.002(J)	0.0291	0.00117(J)	0.000584(J)	Non-Detect	0.0365	0.976	Non-Detect	0.0018(J)	Non-Detect	Non-Detect	Non-Detect	0.00247(J)	Non-Detect

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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
GSD-AP-MW-16	10/24/2018	0.0261(J)	18	3.3	0.11	5.27	44	107	Non-Detect	Non-Detect	0.0499	Non-Detect	0.000307(J)	Non-Detect	0.564	0.0129	0.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-16	11/14/2018	0.0209(J)	14.9	3.6	0.1	4.99	44	96.7	Non-Detect	Non-Detect	0.0458	Non-Detect	0.000417(J)	Non-Detect	-0.0027(U)	0.0114	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-16	11/28/2018	0.0239(J)	14.8	3.5	0.1	4.74	46	102	Non-Detect	0.00124(J)	0.0476	0.00133(J)	0.000387(J)	Non-Detect	0.222(U)	0.0168	0.1	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-16	12/5/2018	Non-Detect	14.8	3.3	0.11	4.76	51	103	Non-Detect	0.00113(J)	0.0475	Non-Detect	0.000317(J)	Non-Detect	0.288(U)	0.0161	0.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00349(J)	Non-Detect
GSD-AP-MW-16	12/18/2018	Non-Detect	16.4	3.6	0.14	4.57	76	126	Non-Detect	0.00113(J)	0.0461	0.000761(J)	0.000438(J)	Non-Detect	n/a	0.0234	0.14	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00395(J)	Non-Detect
GSD-AP-MW-16	1/3/2019	0.0209(J)	19.7	3.4	0.16	4.56	94	191	Non-Detect	0.00175(J)	0.0426	0.000677(J)	0.000703(J)	Non-Detect	n/a	0.038	0.16	0.001(J)	Non-Detect	Non-Detect	Non-Detect	0.00488(J)	Non-Detect
GSD-AP-MW-16	1/24/2019	0.0271(J)	19.6	3.91	Non-Detect	4.45	135	212	0.000922(J)	0.00257(J)	0.0485	0.000703(J)	0.000736(J)	Non-Detect	n/a	0.04	Non-Detect	0.00114(J)	Non-Detect	0.000411(J)	Non-Detect	0.00707(J)	Non-Detect
GSD-AP-MW-16	2/5/2019	0.0245(J)	20.8	3.94	Non-Detect	4.3	183	269	Non-Detect	0.00355(J)	0.0354	0.000711(J)	0.00101	Non-Detect	0.431(U)	0.0538	Non-Detect	0.00135(J)	Non-Detect	0.000473(J)	Non-Detect	0.00938(J)	Non-Detect
GSD-AP-MW-16	2/28/2019	Non-Detect	21.5	4.15	Non-Detect	4.35	192	261	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
GSD-AP-MW-16	8/19/2019	Non-Detect	12.8	3.42	Non-Detect	4.57	66.6	121	Non-Detect	0.00228(J)	0.0314	Non-Detect	0.000499(J)	Non-Detect	0.377(U)	0.0247	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00316(J)	Non-Detect
GSD-AP-MW-16	4/15/2020	Non-Detect	13.1	3.39	Non-Detect	4.49	92.8	155	Non-Detect	0.0034(J)	0.028	Non-Detect	0.000697(J)	Non-Detect	0.0373	0.449(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.00434(J)	Non-Detect
GSD-AP-MW-16	8/25/2020	Non-Detect	12.2	2.94	0.0863(J)	4.2	74.1	131	Non-Detect	0.00237(J)	0.0261	Non-Detect	0.000507(J)	Non-Detect	0.0294	0.851	0.0863(J)	0.0011(J)	Non-Detect	Non-Detect	Non-Detect	0.00262(J)	Non-Detect

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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
GSD-AP-MW-17	10/24/2018	0.0357(J)	28.3	4	0.23	7.92	16	184	Non-Detect	Non-Detect	0.218	Non-Detect	Non-Detect	Non-Detect	0.694	Non-Detect	0.23	Non-Detect	Non-Detect	Non-Detect	0.00507(J)	Non-Detect	Non-Detect
GSD-AP-MW-17	11/14/2018	0.0348(J)	27.5	3.6	0.2	8.23	13	170	Non-Detect	Non-Detect	0.203	Non-Detect	Non-Detect	Non-Detect	0.398(U)	Non-Detect	0.2	Non-Detect	Non-Detect	Non-Detect	0.00358(J)	Non-Detect	Non-Detect
GSD-AP-MW-17	11/28/2018	0.0313(J)	20.7	3.5	0.19	8.95	11	167	Non-Detect	Non-Detect	0.191	Non-Detect	Non-Detect	Non-Detect	0.428(U)	Non-Detect	0.19	Non-Detect	0.0111(J)	Non-Detect	0.00322(J)	Non-Detect	Non-Detect
GSD-AP-MW-17	12/5/2018	0.0363(J)	25.3	3.2	0.19	8.77	12	185	Non-Detect	Non-Detect	0.209	Non-Detect	Non-Detect	Non-Detect	0.302(U)	Non-Detect	0.19	Non-Detect	0.0124(J)	Non-Detect	0.00256(J)	Non-Detect	Non-Detect
GSD-AP-MW-17	12/18/2018	0.033(J)	20.9	3.4	0.15	8.99	11	164	Non-Detect	Non-Detect	0.199	Non-Detect	Non-Detect	Non-Detect	n/a	Non-Detect	0.15	Non-Detect	0.0121(J)	Non-Detect	0.00215(J)	Non-Detect	Non-Detect
GSD-AP-MW-17	1/3/2019	0.036(J)	18.5	3.2	0.19	9.35	10	167	Non-Detect	Non-Detect	0.176	Non-Detect	Non-Detect	Non-Detect	n/a	Non-Detect	0.19	Non-Detect	0.0137(J)	Non-Detect	0.00257(J)	Non-Detect	Non-Detect
GSD-AP-MW-17	1/24/2019	0.0307(J)	17	3.15	0.168	9.42	10.2	137	Non-Detect	Non-Detect	0.206	Non-Detect	Non-Detect	Non-Detect	n/a	Non-Detect	0.168	Non-Detect	0.0134(J)	Non-Detect	0.00211(J)	Non-Detect	Non-Detect
GSD-AP-MW-17	2/5/2019	0.0306(J)	17.1	2.98	0.192	9.23	10.4	138	Non-Detect	Non-Detect	0.168	Non-Detect	Non-Detect	Non-Detect	0.307(U)	Non-Detect	0.192	Non-Detect	0.0126(J)	Non-Detect	0.00205(J)	Non-Detect	Non-Detect
GSD-AP-MW-17	2/28/2019	0.0206(J)	18.6	3.05	0.182	9.48	9.86	140	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.182	n/a	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-17	8/19/2019	0.0341(J)	25.3	2.8	0.187	7.93	8.74	240	Non-Detect	Non-Detect	0.259	Non-Detect	Non-Detect	Non-Detect	0.683	Non-Detect	0.187	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-17	4/16/2020	0.0331(J)	30.7	2.93	0.166	8.1	11.5	166	Non-Detect	Non-Detect	0.257	Non-Detect	Non-Detect	0.00267(J)	Non-Detect	0.603	0.166	Non-Detect	0.0127(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-17	8/24/2020	0.0303(J)	30.8	2.82	0.163	8.17	10	162	Non-Detect	Non-Detect	0.312	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.404(U)	0.163	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

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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
GSD-AP-PZ-1	6/27/2018	Non-Detect	39.4	3.6	0.13	6.79	2.2(J)	144	Non-Detect	Non-Detect	0.115	Non-Detect	Non-Detect	Non-Detect	0.188(U)	Non-Detect	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	7/18/2018	Non-Detect	38.4	3.8	0.11	6.8	2.5(J)	156	Non-Detect	Non-Detect	0.116	Non-Detect	Non-Detect	Non-Detect	0.314(U)	Non-Detect	0.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	8/7/2018	Non-Detect	36.7	3.3	0.11	6.73	Non-Detect	140	Non-Detect	Non-Detect	0.0906	Non-Detect	Non-Detect	Non-Detect	0.279(U)	Non-Detect	0.11	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	9/5/2018	Non-Detect	43.6	3.4	0.13	6.75	1.4(J)	154	Non-Detect	Non-Detect	0.116	Non-Detect	Non-Detect	Non-Detect	0.589	Non-Detect	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	9/24/2018	Non-Detect	44.5	3.8	0.13	6.83	Non-Detect	165	Non-Detect	Non-Detect	0.125	Non-Detect	Non-Detect	Non-Detect	0.772	Non-Detect	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	10/22/2018	Non-Detect	45	3.3	0.13	6.76	1.7(J)	148	Non-Detect	Non-Detect	0.102	Non-Detect	Non-Detect	Non-Detect	0.621	Non-Detect	0.13	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	12/3/2018	Non-Detect	33.7	3.2	0.08(J)	6.6	2.1(J)	127	Non-Detect	Non-Detect	0.0784	Non-Detect	Non-Detect	Non-Detect	0.188(U)	Non-Detect	0.08(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	2/5/2019	Non-Detect	30.1	3.78	0.0934(J)	6.66	3.99	113	Non-Detect	Non-Detect	0.0578	Non-Detect	Non-Detect	Non-Detect	0.274(U)	Non-Detect	0.0934(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	2/25/2019	Non-Detect	25.6	3.66	Non-Detect	6.6	4.01	106	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
GSD-AP-PZ-1	8/20/2019	Non-Detect	38.3	3.52	0.0889(J)	6.3	3.73	141	Non-Detect	Non-Detect	0.097	Non-Detect	Non-Detect	Non-Detect	0.663	Non-Detect	0.0889(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	4/13/2020	Non-Detect	25.9	3.36	0.103	6.66	3.83	104	Non-Detect	Non-Detect	0.0529	Non-Detect	Non-Detect	Non-Detect	Non-Detect	-0.129(U)	0.103	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-1	8/24/2020	Non-Detect	29	3.35	0.114	6.64	4.16	114	Non-Detect	Non-Detect	0.0733	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.177(U)	0.114	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Analytical Data Summary
Plant Gadsden 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
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
GSD-AP-PZ-5	6/27/2018	Non-Detect	4.56	4.2	0.05(J)	5.81	Non-Detect	48.7	Non-Detect	Non-Detect	0.154	Non-Detect	0.000304(J)	Non-Detect	0.259(U)	0.00341(J)	0.05(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	7/18/2018	Non-Detect	3.92	4.1	0.04(J)	5.74	Non-Detect	46	Non-Detect	Non-Detect	0.15	Non-Detect	Non-Detect	Non-Detect	0.434	0.00341(J)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	8/8/2018	Non-Detect	3.74	3.3	0.04(J)	5.7	Non-Detect	48	Non-Detect	Non-Detect	0.119	Non-Detect	Non-Detect	Non-Detect	0.763	0.00221(J)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	9/5/2018	Non-Detect	3.38	3.7	0.04(J)	5.61	Non-Detect	47.3	Non-Detect	Non-Detect	0.123	Non-Detect	Non-Detect	Non-Detect	0.631	0.00202(J)	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	9/24/2018	Non-Detect	3.25	3.9	0.04(J)	5.59	Non-Detect	44.7	Non-Detect	Non-Detect	0.112	Non-Detect	Non-Detect	Non-Detect	0.588	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	10/23/2018	Non-Detect	3.37	4	0.04(J)	5.6	Non-Detect	35.3	Non-Detect	Non-Detect	0.125	Non-Detect	Non-Detect	Non-Detect	0.383(U)	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	12/3/2018	Non-Detect	3.67	3.6	Non-Detect	5.73	Non-Detect	48.7	Non-Detect	Non-Detect	0.126	Non-Detect	Non-Detect	Non-Detect	0.736	0.00227(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	2/7/2019	Non-Detect	2.89	3.72	Non-Detect	5.44	0.639(J)	42.7	0.00114(J)	Non-Detect	0.0602	Non-Detect	Non-Detect	Non-Detect	0.0202(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	2/25/2019	Non-Detect	2.95	3.95	Non-Detect	5.46	Non-Detect	40.7	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
GSD-AP-PZ-5	8/21/2019	Non-Detect	3.04	3.85	Non-Detect	5.13	1.21	46	Non-Detect	Non-Detect	0.085	Non-Detect	Non-Detect	Non-Detect	0.442(U)	0.00225(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	4/15/2020	Non-Detect	2.93	3.83	Non-Detect	5.31	0.554(J)	41.3	Non-Detect	Non-Detect	0.0535	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.432(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-5	8/24/2020	Non-Detect	2.94	3.96	Non-Detect	4.65	Non-Detect	42.7	Non-Detect	Non-Detect	0.0565	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.454(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Analytical Data Summary
Plant Gadsden 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
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
GSD-AP-PZ-6	6/27/2018	Non-Detect	3.89	4.1	0.04(J)	5.44	Non-Detect	44	Non-Detect	Non-Detect	0.0298	Non-Detect	Non-Detect	Non-Detect	0.231(U)	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	7/18/2018	Non-Detect	3.8	4.3	0.04(J)	5.58	Non-Detect	42.7	Non-Detect	Non-Detect	0.0312	Non-Detect	Non-Detect	Non-Detect	0.676	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	8/8/2018	Non-Detect	3.89	3.8	0.04(J)	5.55	Non-Detect	46	Non-Detect	Non-Detect	0.0265	Non-Detect	Non-Detect	Non-Detect	0.496	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	9/5/2018	Non-Detect	3.78	3.9	0.04(J)	5.56	Non-Detect	67.3	Non-Detect	Non-Detect	0.0291	Non-Detect	Non-Detect	Non-Detect	0.62	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	9/24/2018	Non-Detect	3.73	4.2	0.04(J)	5.57	Non-Detect	49.3	Non-Detect	Non-Detect	0.029	Non-Detect	Non-Detect	Non-Detect	-0.12(U)	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	10/23/2018	Non-Detect	3.79	4.1	0.04(J)	5.55	Non-Detect	31.3	Non-Detect	Non-Detect	0.0298	Non-Detect	Non-Detect	Non-Detect	0.352(U)	Non-Detect	0.04(J)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	12/3/2018	Non-Detect	3.79	3.8	Non-Detect	5.6	Non-Detect	46	Non-Detect	Non-Detect	0.0307	Non-Detect	Non-Detect	Non-Detect	0.238(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	2/7/2019	Non-Detect	3.75	4.15	Non-Detect	5.51	1.69	32.7	0.00181(J)	Non-Detect	0.028	Non-Detect	Non-Detect	Non-Detect	0.395(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	2/25/2019	Non-Detect	3.81	4.2	Non-Detect	5.54	1.53	31.3	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
GSD-AP-PZ-6	8/21/2019	Non-Detect	3.71	4	Non-Detect	5.44	1.62	42.7	Non-Detect	Non-Detect	0.0312	Non-Detect	Non-Detect	Non-Detect	-0.00256(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	4/15/2020	Non-Detect	3.56	3.71	Non-Detect	5.52	1.68	37.3	Non-Detect	Non-Detect	0.0296	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.000738(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-6	8/24/2020	Non-Detect	3.45	3.59	Non-Detect	5.38	1.31	37.3	Non-Detect	Non-Detect	0.031	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.404(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Analytical Data Summary
Plant Gadsden 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
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
GSD-AP-PZ-2	4/13/2020	Non-Detect	16.1	5.42	Non-Detect	5.84	1.48	88	Non-Detect	Non-Detect	0.0832	Non-Detect	Non-Detect	Non-Detect	0.00489(J)	0.472(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-PZ-2	8/24/2020	Non-Detect	24.8	5.46	Non-Detect	6	3.88	115	Non-Detect	Non-Detect	0.132	Non-Detect	Non-Detect	Non-Detect	0.00237(J)	-0.00312(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-2VA	4/15/2020	0.587	5	6.47	2.51	8.6	4.18	324	Non-Detect	Non-Detect	0.2	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.231(U)	2.51	Non-Detect	0.0783	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-2VA	7/1/2020	n/a	n/a	n/a	n/a	8.36	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.069	n/a	n/a	n/a	n/a
GSD-AP-MW-2VA	8/25/2020	0.552	4.97	6.4	2.4	8.43	4.83	321	Non-Detect	0.00135(J)	0.135	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.807	2.4	Non-Detect	0.0666	Non-Detect	0.00323(J)	Non-Detect	Non-Detect
GSD-AP-MW-4V	4/15/2020	0.0634(J)	23.9	5.16	0.218	7.93	1.25	218	Non-Detect	Non-Detect	0.457	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.329(U)	0.218	Non-Detect	0.0219	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-4V	8/26/2020	0.0611(J)	23.5	5.37	0.217	7.83	1.21	239	Non-Detect	Non-Detect	0.534	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.839	0.217	Non-Detect	0.0203	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-18H	4/15/2020	0.124	19.1	6	Non-Detect	5.1	67.1	126	Non-Detect	Non-Detect	0.0389	Non-Detect	Non-Detect	Non-Detect	Non-Detect	0.419(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-18H	8/25/2020	0.105	14.9	5.79	Non-Detect	5.13	52.6	107	Non-Detect	Non-Detect	0.0388	Non-Detect	Non-Detect	Non-Detect	Non-Detect	1.45	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-19H	4/14/2020	0.448	32.9	7.35	Non-Detect	5.79	75.3	190	Non-Detect	Non-Detect	0.153	Non-Detect	Non-Detect	Non-Detect	0.00886	42.6	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-19H	6/1/2020	n/a	n/a	n/a	n/a	5.88	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.215(U)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GSD-AP-MW-19H	8/26/2020	0.39	39.3	7.03	Non-Detect	6.33	72.9	202	Non-Detect	Non-Detect	0.201	Non-Detect	Non-Detect	Non-Detect	0.0101	0.265(U)	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-20H	4/14/2020	0.308	51.5	6.64	0.125	6.02	135	323	Non-Detect	0.00287(J)	0.189	Non-Detect	Non-Detect	Non-Detect	0.0122	0.0962(U)	0.125	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect
GSD-AP-MW-20H	8/26/2020	0.308	47.6	6.73	0.103	6.36	112	310	Non-Detect	0.00186(J)	0.197	Non-Detect	Non-Detect	Non-Detect	0.0104	0.413(U)	0.103	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect	Non-Detect

Appendix B

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

Plant Gadsden Ash Pond

2020 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).

Rain was present when pumping and sampling wells MW-1, MW-2, MW-2VA, MW-14, PZ-1 and MW-18H.

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 : WMWGADAP_1295

Project/Site : Gadsden Ash Pond
Gadsden, AL 35903

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

Attention : Dustin Brooks & Greg Dyer

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

October 01, 2020

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on August 27, 2020.
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, 2021

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: 2020.10.02 09:58:55 -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: 2020.10.11 13:49:34 -05'00'

REPORT OF LABORATORY ANALYSIS

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

Case Narrative

Alabama Power

Total Metals ICP

Gadsden Ash Pond

WMWGADAP_1295

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 meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA16051	681635	WMWGADAP_1295
BA16052	681635	WMWGADAP_1295
BA16053	681635	WMWGADAP_1295
BA16054	681635	WMWGADAP_1295
BA16055	681635	WMWGADAP_1295
BA16056	681635	WMWGADAP_1295
BA16057	681635	WMWGADAP_1295
BA16058	681635	WMWGADAP_1295
BA16059	681635	WMWGADAP_1295
BA16060	681635	WMWGADAP_1295
BA16061	681636	WMWGADAP_1295
BA16062	681636	WMWGADAP_1295
BA16063	681636	WMWGADAP_1295
BA16064	681636	WMWGADAP_1295
BA16065	681636	WMWGADAP_1295
BA16066	681636	WMWGADAP_1295
BA16067	681636	WMWGADAP_1295
BA16068	681636	WMWGADAP_1295
BA16069	681636	WMWGADAP_1295
BA16070	681636	WMWGADAP_1295
BA16071	681637	WMWGADAP_1295
BA16072	681637	WMWGADAP_1295
BA16073	681637	WMWGADAP_1295
BA16074	681637	WMWGADAP_1295
BA16075	681637	WMWGADAP_1295
BA16076	681637	WMWGADAP_1295
BA16077	681637	WMWGADAP_1295
BA16078	681637	WMWGADAP_1295
BA16079	681637	WMWGADAP_1295
BA16080	681637	WMWGADAP_1295
BA16081	681638	WMWGADAP_1295

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.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- 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.
- 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
BA16057	Sodium	10.15
BA16058	Calcium, Iron	10.15
BA16059	Calcium	10.15
BA16060	Calcium	10.15
BA16061	Iron	101.5
BA16062	Sodium	10.15
BA16063	Calcium	10.15
BA16065	Iron	10.15
BA16071	Calcium, Magnesium	10.15
BA16076	Calcium, Iron	10.15
BA16077	Calcium	10.15
BA16078	Calcium, Iron	10.15
BA16079	Calcium	10.15

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

Dissolved Metals ICP

Gadsden Ash Pond

WMWGADAP_1295

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 meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA16051	681583	WMWGADAP_1295
BA16052	681583	WMWGADAP_1295
BA16053	681583	WMWGADAP_1295
BA16054	681583	WMWGADAP_1295
BA16055	681583	WMWGADAP_1295
BA16057	681583	WMWGADAP_1295
BA16058	681583	WMWGADAP_1295
BA16059	681583	WMWGADAP_1295
BA16060	681583	WMWGADAP_1295
BA16061	681583	WMWGADAP_1295
BA16062	681584	WMWGADAP_1295
BA16063	681584	WMWGADAP_1295
BA16064	681584	WMWGADAP_1295
BA16065	681584	WMWGADAP_1295
BA16067	681584	WMWGADAP_1295
BA16068	681584	WMWGADAP_1295
BA16069	681584	WMWGADAP_1295
BA16070	681584	WMWGADAP_1295
BA16071	681584	WMWGADAP_1295
BA16072	681584	WMWGADAP_1295
BA16074	681585	WMWGADAP_1295
BA16075	681585	WMWGADAP_1295
BA16076	681585	WMWGADAP_1295
BA16077	681585	WMWGADAP_1295
BA16078	681585	WMWGADAP_1295
BA16079	681585	WMWGADAP_1295
BA16080	681585	WMWGADAP_1295

4. All of the above samples were analyzed and prepared by EPA 200.7 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.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- 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 analyzed with each ICP batch. All acceptance criteria for accuracy were met, except for the following:
    - BA16061 Iron MS/MSD spike level was less than 30% of sample nominal concentration.
- A matrix spike and matrix spike duplicate were 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
BA16058	Iron	10.15
BA16061	Iron	101.5
BA16065	Iron	10.15
BA16076	Iron	10.15
BA16078	Iron	10.15

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

Total Metals ICPMS

Gadsden Ash Pond

WMWGADAP_1295

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 meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA16051	681415	WMWGADAP_1295
BA16052	681415	WMWGADAP_1295
BA16053	681415	WMWGADAP_1295
BA16054	681415	WMWGADAP_1295
BA16055	681415	WMWGADAP_1295
BA16056	681415	WMWGADAP_1295
BA16057	681415	WMWGADAP_1295
BA16058	681415	WMWGADAP_1295
BA16059	681415	WMWGADAP_1295
BA16060	681415	WMWGADAP_1295
BA16061	681416	WMWGADAP_1295
BA16062	681416	WMWGADAP_1295
BA16063	681416	WMWGADAP_1295
BA16064	681416	WMWGADAP_1295
BA16065	681416	WMWGADAP_1295
BA16066	681416	WMWGADAP_1295
BA16067	681416	WMWGADAP_1295
BA16068	681416	WMWGADAP_1295
BA16069	681416	WMWGADAP_1295
BA16070	681416	WMWGADAP_1295
BA16071	681417	WMWGADAP_1295
BA16072	681417	WMWGADAP_1295
BA16073	681417	WMWGADAP_1295
BA16074	681417	WMWGADAP_1295
BA16075	681417	WMWGADAP_1295
BA16076	681417	WMWGADAP_1295
BA16077	681417	WMWGADAP_1295
BA16078	681417	WMWGADAP_1295
BA16079	681417	WMWGADAP_1295
BA16080	681417	WMWGADAP_1295
BA16081	681418	WMWGADAP_1295

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, except for the following:
    - BA16060 Manganese MS/MSD spike level was 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. 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
BA16058	Mn	10.15
BA16059	Mn	92.365
BA16060	Mn	92.365
BA16063	Mn	92.365
BA16071	Mn	10.15
BA16076	Mn	5.075
BA16077	Mn	5.075
BA16078	Mn	10.15
BA16079	Mn	5.075

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

Dissolved Metals ICPMS

Gadsden Ash Pond

WMWGADAP_1295

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 meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA16051	681830	WMWGADAP_1295
BA16052	681830	WMWGADAP_1295
BA16053	681830	WMWGADAP_1295
BA16054	681830	WMWGADAP_1295
BA16055	681830	WMWGADAP_1295
BA16057	681830	WMWGADAP_1295
BA16058	681830	WMWGADAP_1295
BA16059	681830	WMWGADAP_1295
BA16060	681830	WMWGADAP_1295
BA16061	681830	WMWGADAP_1295
BA16062	681831	WMWGADAP_1295
BA16063	681831	WMWGADAP_1295
BA16064	681831	WMWGADAP_1295
BA16065	681831	WMWGADAP_1295
BA16067	681831	WMWGADAP_1295
BA16068	681831	WMWGADAP_1295
BA16069	681831	WMWGADAP_1295
BA16070	681831	WMWGADAP_1295
BA16071	681831	WMWGADAP_1295
BA16072	681831	WMWGADAP_1295
BA16074	681832	WMWGADAP_1295
BA16075	681832	WMWGADAP_1295
BA16076	681832	WMWGADAP_1295
BA16077	681832	WMWGADAP_1295
BA16078	681832	WMWGADAP_1295
BA16079	681832	WMWGADAP_1295
BA16080	681832	WMWGADAP_1295

4. All of the above samples were analyzed and prepared by EPA 200.8 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.
- 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.
- The method blank associated with each preparation 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 analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
    - BA16061 Managnese MS/MSD spike level was less than 30% of sample nominal concentration.
- A matrix spike and matrix spike duplicate were analyzed with each ICPMS 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
BA16058	Mn	10.15
BA16059	Mn	92.365
BA16060	Mn	92.365
BA16063	Mn	92.365
BA16071	Mn	10.15
BA16076	Mn	5.075
BA16077	Mn	5.075
BA16078	Mn	10.15
BA16079	Mn	5.075

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

Gadsden Ash Pond

WMWGADAP_1295

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 meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA16051	681023	WMWGADAP_1295
BA16052	681023	WMWGADAP_1295
BA16053	681023	WMWGADAP_1295
BA16054	681023	WMWGADAP_1295
BA16055	681023	WMWGADAP_1295
BA16056	681023	WMWGADAP_1295
BA16057	681023	WMWGADAP_1295
BA16058	681023	WMWGADAP_1295
BA16059	681023	WMWGADAP_1295
BA16060	681023	WMWGADAP_1295
BA16061	681024	WMWGADAP_1295
BA16062	681024	WMWGADAP_1295
BA16063	681024	WMWGADAP_1295
BA16064	681024	WMWGADAP_1295
BA16065	681024	WMWGADAP_1295
BA16066	681024	WMWGADAP_1295
BA16067	681024	WMWGADAP_1295
BA16068	681024	WMWGADAP_1295
BA16069	681024	WMWGADAP_1295
BA16070	681024	WMWGADAP_1295
BA16071	681025	WMWGADAP_1295
BA16072	681025	WMWGADAP_1295
BA16073	681025	WMWGADAP_1295
BA16074	681025	WMWGADAP_1295
BA16075	681025	WMWGADAP_1295
BA16076	681025	WMWGADAP_1295
BA16077	681025	WMWGADAP_1295
BA16078	681025	WMWGADAP_1295
BA16079	681025	WMWGADAP_1295
BA16080	681025	WMWGADAP_1295
BA16081	681026	WMWGADAP_1295

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.

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

Case Narrative

Alabama Power

TDS

Gadsden Ash Pond

WMWGADAP_1295

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 meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA16051	680790	WMWGADAP_1295
BA16052	680790	WMWGADAP_1295
BA16053	680790	WMWGADAP_1295
BA16054	680790	WMWGADAP_1295
BA16055	680790	WMWGADAP_1295
BA16056	680790	WMWGADAP_1295
BA16057	680790	WMWGADAP_1295
BA16058	680790	WMWGADAP_1295
BA16059	680790	WMWGADAP_1295
BA16060	680790	WMWGADAP_1295
BA16061	680791	WMWGADAP_1295
BA16062	681149	WMWGADAP_1295
BA16063	681149	WMWGADAP_1295
BA16064	681149	WMWGADAP_1295
BA16065	681149	WMWGADAP_1295
BA16066	681149	WMWGADAP_1295
BA16067	680791	WMWGADAP_1295
BA16068	680791	WMWGADAP_1295
BA16069	680791	WMWGADAP_1295
BA16070	680791	WMWGADAP_1295
BA16071	680791	WMWGADAP_1295
BA16072	680791	WMWGADAP_1295
BA16073	680791	WMWGADAP_1295
BA16074	680791	WMWGADAP_1295
BA16075	680791	WMWGADAP_1295
BA16076	681149	WMWGADAP_1295
BA16077	681149	WMWGADAP_1295
BA16078	681149	WMWGADAP_1295
BA16079	681149	WMWGADAP_1295
BA16080	681150	WMWGADAP_1295
BA16081	681150	WMWGADAP_1295

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:
    - BA16056
    - BA16066
    - BA16073
    - BA16081

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

Case Narrative

Alabama Power

Anions

Gadsden Ash Pond

WMWGADAP_1295

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 meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA16051	681069, 681074, & 681544	WMWGADAP_1295
BA16052	681069, 681074, & 681544	WMWGADAP_1295
BA16053	681069, 681074, & 681544	WMWGADAP_1295
BA16054	681069, 681074, & 681544	WMWGADAP_1295
BA16055	681069, 681074, & 681544	WMWGADAP_1295
BA16056	681069, 681074, & 681544	WMWGADAP_1295
BA16057	681069, 681074, & 681544	WMWGADAP_1295
BA16058	681069, 681074, & 681544	WMWGADAP_1295
BA16059	681069, 681074, & 681544	WMWGADAP_1295
BA16060	681069, 681074, & 681544	WMWGADAP_1295
BA16061	681070, 681075, & 681545	WMWGADAP_1295
BA16062	681070, 681075, & 681545	WMWGADAP_1295
BA16063	681070, 681075, & 681545	WMWGADAP_1295
BA16064	681070, 681075, & 681545	WMWGADAP_1295
BA16065	681070, 681075, & 681545	WMWGADAP_1295
BA16066	681070, 681075, & 681545	WMWGADAP_1295
BA16067	681070, 681075, & 681545	WMWGADAP_1295
BA16068	681070, 681075, & 681545	WMWGADAP_1295
BA16069	681070, 681075, & 681545	WMWGADAP_1295
BA16070	681070, 681075, & 681545	WMWGADAP_1295
BA16071	681071, 681076, & 681546	WMWGADAP_1295
BA16072	681071, 681076, & 681546	WMWGADAP_1295
BA16073	681071, 681076, & 681546	WMWGADAP_1295
BA16074	681071, 681076, & 681546	WMWGADAP_1295
BA16075	681071, 681076, & 681546	WMWGADAP_1295
BA16076	681071, 681076, & 681546	WMWGADAP_1295
BA16077	681071, 681076, & 681546	WMWGADAP_1295
BA16078	681071, 681076, & 681546	WMWGADAP_1295
BA16079	681071, 681076, & 681546	WMWGADAP_1295
BA16080	681071, 681076, & 681546	WMWGADAP_1295
BA16081	681072, 681077, & 681547	WMWGADAP_1295

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 half the limit of quantitation 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 half 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, except for the following:
    - BA16070 fluoride MS did not meet acceptance criteria due to negative interference, possibly from high levels of polyvalent cations.
- 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
BA16058	Sulfate	8
BA16059	Sulfate	16
BA16060	Sulfate	25
BA16063	Sulfate	8
BA16068	Sulfate	4
BA16069	Sulfate	4
BA16070	Sulfate	16
BA16071	Sulfate	40
BA16072	Sulfate	3
BA16078	Sulfate	16
BA16079	Sulfate	16
BA16080	Sulfate	8

8. The raw data results are shown with dilution factors included.
9. Samples BA16068, BA16069, & BA16070 fluoride results are qualified due to negative interferences, possibly from high levels of polyvalent cations.

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

Case Narrative

Alabama Power

Alkalinity

Gadsden Ash Pond

WMWGADAP_1295

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 meet NELAP traceability requirements and were used within their recommended shelf life.

Sample ID	Batch ID	Project ID
BA16051	681505 & 681506	WMWGADAP_1295
BA16052	681505 & 681506	WMWGADAP_1295
BA16053	681505 & 681506	WMWGADAP_1295
BA16054	681505 & 681506	WMWGADAP_1295
BA16055	681505 & 681506	WMWGADAP_1295
BA16057	681505 & 681506	WMWGADAP_1295
BA16058	681505 & 681506	WMWGADAP_1295
BA16059	681505 & 681506	WMWGADAP_1295
BA16060	681505 & 681506	WMWGADAP_1295
BA16061	681505 & 681506	WMWGADAP_1295
BA16062	681505 & 681506	WMWGADAP_1295
BA16063	681505 & 681506	WMWGADAP_1295
BA16064	681505 & 681506	WMWGADAP_1295
BA16065	681505 & 681506	WMWGADAP_1295
BA16067	681505 & 681506	WMWGADAP_1295
BA16068	681505 & 681506	WMWGADAP_1295
BA16069	681505 & 681506	WMWGADAP_1295
BA16070	681505 & 681506	WMWGADAP_1295
BA16071	681505 & 681506	WMWGADAP_1295
BA16072	681505 & 681506	WMWGADAP_1295
BA16074	681496 & 681497	WMWGADAP_1295
BA16075	681496 & 681497	WMWGADAP_1295
BA16076	681496 & 681497	WMWGADAP_1295
BA16077	681496 & 681497	WMWGADAP_1295
BA16078	681496 & 681497	WMWGADAP_1295
BA16079	681496 & 681497	WMWGADAP_1295
BA16080	681496 & 681497	WMWGADAP_1295

4. All of the above samples were samples were analyzed by Standard Method 2320B.
    a. BA16068, BA16069, & BA16070 are reported as NA due to the initial pH was less than the 4.5 titration end point.
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.

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - PZ-1

Location Code: WMWGADAP
Collected: 8/24/20 10:50
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16051

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 10:44		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 10:44		1.015	29.0	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 10:44		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	9/8/20 15:00	9/9/20 10:44		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 10:44		1.015	4.05	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 10:44		1.015	4.37	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:02		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 14:34		1.015	0.0733	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 14:34		1.015	0.530	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 14:34		1.015	0.0524	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:34		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	8/28/20 16:43		1.015	0.0386	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	85.9	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	114	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - PZ-1

Location Code: WMWGADAP
Collected: 8/24/20 10:50
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16051

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	85.8	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.06	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:13	8/31/20 09:13		1	3.35	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:50	8/31/20 12:50		1	0.114	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:21	9/3/20 11:21		1	4.16	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/24/20 10:46	8/24/20 10:46			208.32	uS/cm			FA
pH	8/24/20 10:46	8/24/20 10:46			6.64	SU			FA
Temperature	8/24/20 10:46	8/24/20 10:46			19.37	C			FA
Turbidity	8/24/20 10:46	8/24/20 10:46			1.99	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/24/20 10:50
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - PZ-1

Laboratory ID Number: BA16051

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/24/20 10:50
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - PZ-1

Laboratory ID Number: BA16051

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - PZ-2

Location Code: WMWGADAP
Collected: 8/24/20 12:24
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16052

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 10:47		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 10:47		1.015	24.8	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 10:47		1.015	0.551	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 10:47		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 10:47		1.015	4.49	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 10:47		1.015	6.76	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:05		1.015	0.120	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:36		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 14:36		1.015	0.132	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 14:36		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:36		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:36		1.015	0.00237	mg/L	0.002	0.005	J
* Lead, Total	8/28/20 08:15	8/28/20 14:36		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 14:36		1.015	0.616	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 14:36		1.015	0.263	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 14:36		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:36		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	8/28/20 16:46		1.015	0.243	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	85.2	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	115	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - PZ-2

Location Code: WMWGADAP
Collected: 8/24/20 12:24
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16052

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	85.2	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.01	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:15	8/31/20 09:15		1	5.46	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:51	8/31/20 12:51		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:22	9/3/20 11:22		1	3.88	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/24/20 12:22	8/24/20 12:22			184.93	uS/cm			FA
pH	8/24/20 12:22	8/24/20 12:22			6.00	SU			FA
Temperature	8/24/20 12:22	8/24/20 12:22			20.96	C			FA
Turbidity	8/24/20 12:22	8/24/20 12:22			8.5	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/24/20 12:24
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - PZ-2

Laboratory ID Number: BA16052

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/24/20 12:24
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - PZ-2

Laboratory ID Number: BA16052

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - PZ-5

Location Code: WMWGADAP
Collected: 8/24/20 13:38
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16053

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 10:50		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 10:50		1.015	2.94	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 10:50		1.015	0.0375	mg/L	0.02	0.05	J
* Lithium, Total	9/8/20 15:00	9/9/20 10:50		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 10:50		1.015	1.07	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 10:50		1.015	3.71	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:08		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 14:39		1.015	0.0565	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 14:39		1.015	0.537	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 14:39		1.015	0.0359	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:39		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	8/28/20 16:49		1.015	0.0165	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	8.92	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	42.7	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - PZ-5

Location Code: WMWGADAP
Collected: 8/24/20 13:38
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16053

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	8.92	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.00	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:16	8/31/20 09:16		1	3.96	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:52	8/31/20 12:52		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:24	9/3/20 11:24		1	Not Detected	mg/L	0.50	1	U
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/24/20 13:34	8/24/20 13:34			45.69	uS/cm			FA
pH	8/24/20 13:34	8/24/20 13:34			4.65	SU			FA
Temperature	8/24/20 13:34	8/24/20 13:34			17.18	C			FA
Turbidity	8/24/20 13:34	8/24/20 13:34			3.64	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/24/20 13:38
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - PZ-5

Laboratory ID Number: BA16053

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/24/20 13:38
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - PZ-5

Laboratory ID Number: BA16053

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - PZ-6

Location Code: WMWGADAP
Collected: 8/24/20 14:37
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16054

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 10:53		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 10:53		1.015	3.45	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 10:53		1.015	0.0379	mg/L	0.02	0.05	J
* Lithium, Total	9/8/20 15:00	9/9/20 10:53		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 10:53		1.015	1.09	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 10:53		1.015	3.84	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:11		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 14:42		1.015	0.0310	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 14:42		1.015	0.465	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 14:42		1.015	0.00270	mg/L	0.001	0.005	J
* Selenium, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:42		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	8/28/20 16:51		1.015	0.00181	mg/L	0.001	0.005	J
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	9.16	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	37.3	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - PZ-6

Location Code: WMWGADAP
Collected: 8/24/20 14:37
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16054

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	9.16	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.00	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:17	8/31/20 09:17		1	3.59	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:54	8/31/20 12:54		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:25	9/3/20 11:25		1	1.31	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/24/20 14:34	8/24/20 14:34			48.83	uS/cm			FA
pH	8/24/20 14:34	8/24/20 14:34			5.38	SU			FA
Temperature	8/24/20 14:34	8/24/20 14:34			18.71	C			FA
Turbidity	8/24/20 14:34	8/24/20 14:34			4.94	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/24/20 14:37
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - PZ-6

Laboratory ID Number: BA16054

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/24/20 14:37
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - PZ-6

Laboratory ID Number: BA16054

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-5

Location Code: WMWGADAP
Collected: 8/24/20 15:47
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16055

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 10:56		1.015	0.329	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 10:56		1.015	35.5	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 10:56		1.015	0.521	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 10:56		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 10:56		1.015	7.43	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 10:56		1.015	13.5	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:14		1.015	0.321	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:44		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 14:44		1.015	0.238	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 14:44		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:44		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:44		1.015	0.00222	mg/L	0.002	0.005	J
* Lead, Total	8/28/20 08:15	8/28/20 14:44		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 14:44		1.015	0.742	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 14:44		1.015	0.275	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 14:44		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:44		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	8/28/20 16:54		1.015	0.256	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	98.3	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	175	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-5

Location Code: WMWGADAP
Collected: 8/24/20 15:47
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16055

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	98.3	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.02	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:18	8/31/20 09:18		1	6.64	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:55	8/31/20 12:55		1	0.0607	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:26	9/3/20 11:26		1	21.2	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/24/20 15:43	8/24/20 15:43			284.81	uS/cm			FA
pH	8/24/20 15:43	8/24/20 15:43			6.11	SU			FA
Temperature	8/24/20 15:43	8/24/20 15:43			20.95	C			FA
Turbidity	8/24/20 15:43	8/24/20 15:43			5.47	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/24/20 15:47
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-5

Laboratory ID Number: BA16055

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/24/20 15:47
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-5

Laboratory ID Number: BA16055

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond Field Blank-3

Location Code: WMWGADAPFB
Collected: 8/24/20 16:05
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16056

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 10:59		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 10:59		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	9/8/20 15:00	9/9/20 10:59		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	9/8/20 15:00	9/9/20 10:59		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 10:59		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	9/8/20 15:00	9/9/20 10:59		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:47		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:19	8/31/20 09:19		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:56	8/31/20 12:56		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:27	9/3/20 11:27		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAPFB
Sample Date: 8/24/20 16:05
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond Field Blank-3

Laboratory ID Number: BA16056

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20

Comments:

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAPFB
Sample Date: 8/24/20 16:05
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond Field Blank-3

Laboratory ID Number: BA16056

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments:

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-2VA

Location Code: WMWGADAP
Collected: 8/25/20 11:50
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16057

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:02		1.015	0.552	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 11:02		1.015	4.97	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 11:02		1.015	0.113	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 11:02		1.015	0.0666	mg/L	0.01	0.02	
* Magnesium, Total	9/8/20 15:00	9/9/20 11:02		1.015	1.32	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 13:43		10.15	124	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:17		1.015	0.0410	mg/L	0.02	0.05	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:50		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:50		1.015	0.00135	mg/L	0.001	0.005	J
* Barium, Total	8/28/20 08:15	8/28/20 14:50		1.015	0.135	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 14:50		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:50		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:50		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 14:50		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:50		1.015	0.00323	mg/L	0.002	0.01	J
* Potassium, Total	8/28/20 08:15	8/28/20 14:50		1.015	0.773	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 14:50		1.015	0.0149	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 14:50		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:50		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	8/28/20 16:57		1.015	0.0130	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	261	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	321	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-2VA

Location Code: WMWGADAP
Collected: 8/25/20 11:50
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16057

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	255	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	6.02	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:21	8/31/20 09:21		1	6.40	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:57	8/31/20 12:57		1	2.40	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:28	9/3/20 11:28		1	4.83	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/25/20 11:46	8/25/20 11:46			534.26	uS/cm			FA
pH	8/25/20 11:46	8/25/20 11:46			8.43	SU			FA
Temperature	8/25/20 11:46	8/25/20 11:46			21.07	C			FA
Turbidity	8/25/20 11:46	8/25/20 11:46			3.28	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/25/20 11:50
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-2VA

Laboratory ID Number: BA16057

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/25/20 11:50
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-2VA

Laboratory ID Number: BA16057

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-2

Location Code: WMWGADAP
Collected: 8/25/20 13:24
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16058

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:05		1.015	0.528	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 13:46		10.15	80.5	mg/L	1.015	5.075	
* Iron, Total	9/8/20 15:00	9/9/20 13:46		10.15	13.2	mg/L	0.203	0.5075	
* Lithium, Total	9/8/20 15:00	9/9/20 11:05		1.015	0.0410	mg/L	0.01	0.02	
* Magnesium, Total	9/8/20 15:00	9/9/20 11:05		1.015	9.42	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:05		1.015	5.07	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 12:55		10.15	13.2	mg/L	0.203	0.5075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:52		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:52		1.015	0.727	mg/L	0.001	0.005	
* Barium, Total	8/28/20 08:15	8/28/20 14:52		1.015	0.0812	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 14:52		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:52		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:52		1.015	0.0298	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 14:52		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:52		1.015	0.0269	mg/L	0.002	0.01	
* Potassium, Total	8/28/20 08:15	8/28/20 14:52		1.015	8.89	mg/L	0.3	2.5	
* Manganese, Total	8/28/20 08:15	9/1/20 11:30		10.15	6.53	mg/L	0.01015	0.05075	
* Selenium, Total	8/28/20 08:15	8/28/20 14:52		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:52		1.015	0.000347	mg/L	0.0002	0.001	J
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 10:31		10.15	6.43	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	162	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	339	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-2

Location Code: WMWGADAP
Collected: 8/25/20 13:24
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16058

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	162	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.10	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:22	8/31/20 09:22		1	2.00	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 12:58	8/31/20 12:58		1	0.273	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:46	9/3/20 11:46		8	114	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/25/20 13:21	8/25/20 13:21			512.80	uS/cm			FA
pH	8/25/20 13:21	8/25/20 13:21			6.65	SU			FA
Temperature	8/25/20 13:21	8/25/20 13:21			20.17	C			FA
Turbidity	8/25/20 13:21	8/25/20 13:21			5.8	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/25/20 13:24
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-2

Laboratory ID Number: BA16058

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/25/20 13:24
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-2

Laboratory ID Number: BA16058

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-3

Location Code: WMWGADAP
Collected: 8/26/20 08:29
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16059

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:08		1.015	1.16	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 13:48		10.15	75.7	mg/L	1.015	5.075	
* Iron, Total	9/8/20 15:00	9/9/20 11:08		1.015	0.310	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 11:08		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:08		1.015	20.2	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:08		1.015	15.6	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:23		1.015	0.307	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:55		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:55		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 14:55		1.015	0.0363	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 14:55		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:55		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:55		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:55		1.015	0.0191	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 14:55		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:55		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 14:55		1.015	3.32	mg/L	0.3	2.5	
* Manganese, Total	8/28/20 08:15	9/1/20 11:33		92.365	28.1	mg/L	0.092365	0.461825	
* Selenium, Total	8/28/20 08:15	8/28/20 14:55		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:55		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 10:34		92.365	27.1	mg/L	0.092365	0.461825	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	83.0	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	455	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-3

Location Code: WMWGADAP
Collected: 8/26/20 08:29
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16059

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	83.0	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.01	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:23	8/31/20 09:23		1	5.89	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:00	8/31/20 13:00		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:47	9/3/20 11:47		16	246	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/26/20 08:25	8/26/20 08:25			628.30	uS/cm			FA
pH	8/26/20 08:25	8/26/20 08:25			5.87	SU			FA
Temperature	8/26/20 08:25	8/26/20 08:25			20.74	C			FA
Turbidity	8/26/20 08:25	8/26/20 08:25			1.83	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 08:29
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-3

Laboratory ID Number: BA16059

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 08:29
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-3

Laboratory ID Number: BA16059

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-3 DUP

Location Code: WMWGADAP
Collected: 8/26/20 08:29
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16060

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:11		1.015	1.15	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 13:51		10.15	73.4	mg/L	1.015	5.075	
* Iron, Total	9/8/20 15:00	9/9/20 11:11		1.015	0.299	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 11:11		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:11		1.015	20.2	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:11		1.015	15.4	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:26		1.015	0.307	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 14:58		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 14:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 14:58		1.015	0.0362	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 14:58		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 14:58		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 14:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 14:58		1.015	0.0191	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 14:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 14:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 14:58		1.015	3.34	mg/L	0.3	2.5	
* Manganese, Total	8/28/20 08:15	9/1/20 11:35		92.365	27.9	mg/L	0.092365	0.461825	RA
* Selenium, Total	8/28/20 08:15	8/28/20 14:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 14:58		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 10:36		92.365	27.4	mg/L	0.092365	0.461825	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 13:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	86.1	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	445	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-3 DUP

Location Code: WMWGADAP
Collected: 8/26/20 08:29
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16060

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	86.1	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.01	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:24	8/31/20 09:24		1	5.94	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:01	8/31/20 13:01		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 11:49	9/3/20 11:49		25	276	mg/L	12.5	25	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/26/20 08:25	8/26/20 08:25			628.30	uS/cm			FA
pH	8/26/20 08:25	8/26/20 08:25			5.87	SU			FA
Temperature	8/26/20 08:25	8/26/20 08:25			20.74	C			FA
Turbidity	8/26/20 08:25	8/26/20 08:25			1.83	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 08:29
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-3 DUP

Laboratory ID Number: BA16060

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16060	Sodium, Total	mg/L	-0.000249	0.044	5.00	20.7	20.6	5.08	4.25 to 5.75	106	70 to 130	0.484	20
BA16060	Iron, Total	mg/L	0.000496	0.0176	0.2	0.494	0.490	0.199	0.17 to 0.23	97.5	70 to 130	0.813	20
BA16060	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.208	0.208	0.192	0.17 to 0.23	104	70 to 130	0.00	20
BA16060	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0957	0.0949	0.0967	0.085 to 0.115	95.7	70 to 130	0.839	20
BA16060	Magnesium, Total	mg/L	0.000171	0.0462	5.00	25.0	24.8	4.97	4.25 to 5.75	96.0	70 to 130	0.803	20
BA16060	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	28.1	28.2	0.108	0.085 to 0.115	200	70 to 130	0.355	20
BA16060	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.108	0.106	0.106	0.085 to 0.115	108	70 to 130	1.87	20
BA16060	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.141	0.145	0.102	0.085 to 0.115	105	70 to 130	2.80	20
BA16060	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.101	0.101	0.103	0.085 to 0.115	101	70 to 130	0.00	20
BA16060	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.117	0.121	0.103	0.085 to 0.115	97.9	70 to 130	3.36	20
BA16060	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.101	0.105	0.105	0.085 to 0.115	101	70 to 130	3.88	20
BA16060	Mercury, Total by CVAA	mg/L	-0.00000206	0.0005	0.004	0.00369	0.00365	0.00392	0.0034 to 0.0046	92.2	70 to 130	1.09	20
BA16060	Potassium, Total	mg/L	0.0133	0.3674	10.0	13.0	13.5	10.0	8.5 to 11.5	96.6	70 to 130	3.77	20
BA16060	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.105	0.105	0.105	0.085 to 0.115	105	70 to 130	0.00	20
BA16060	Boron, Total	mg/L	-0.000106	0.0650254	1.00	2.15	2.14	0.987	0.85 to 1.15	100	70 to 130	0.466	20
BA16060	Calcium, Total	mg/L	-0.00353	0.1518	5.00	78.3	77.8	5.02	4.25 to 5.75	98.0	70 to 130	0.641	20
BA16060	Antimony, Total	mg/L	0.000243	0.001	0.10	0.101	0.104	0.0973	0.085 to 0.115	101	70 to 130	2.93	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20
BA16060	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.101	0.102	0.0999	0.085 to 0.115	101	70 to 130	0.985	20
BA16060	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.102	0.0981	0.103	0.085 to 0.115	102	70 to 130	3.90	20
BA16060	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.105	0.109	0.104	0.085 to 0.115	105	70 to 130	3.74	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 08:29
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-3 DUP

Laboratory ID Number: BA16060

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16060	Sulfate	mg/L	-0.0252	0.50	500	753	267	19.6	18 to 22	95.4	80 to 120	3.31	20
BA16060	Solids, Dissolved	mg/L	1.00	25			449	55.0	40 to 60			0.447	5
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16060	Chloride	mg/L	0.0685	0.50	10.0	15.9	6.03	9.96	9 to 11	99.6	80 to 120	1.50	20
BA16060	Fluoride	mg/L	0.0241	0.05	2.50	2.35	0.0513	2.53	2.25 to 2.75	94.0	80 to 120	0.00	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-4

Location Code: WMWGADAP
Collected: 8/26/20 09:31
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16061

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:25		1.015	0.398	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 11:25		1.015	22.8	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 14:00		101.5	42.3	mg/L	2.03	5.075	
* Lithium, Total	9/8/20 15:00	9/9/20 11:25		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:25		1.015	6.02	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:25		1.015	11.8	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 12:58		101.5	45.7	mg/L	2.03	5.075	RA
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:13		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:13		1.015	0.0133	mg/L	0.001	0.005	
* Barium, Total	8/28/20 08:15	8/28/20 15:13		1.015	0.181	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:13		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:13		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 15:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:13		1.015	0.0231	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 15:13		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:13		1.015	2.33	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 15:13		1.015	1.04	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 15:13		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 15:13		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	8/28/20 17:07		1.015	0.982	mg/L	0.001	0.005	RA
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	123	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	168	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-4

Location Code: WMWGADAP
Collected: 8/26/20 09:31
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16061

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	123	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.04	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:47	8/31/20 09:47		1	8.96	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:12	8/31/20 13:12		1	0.251	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:36	9/3/20 12:36		1	15.5	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/26/20 09:27	8/26/20 09:27			336.17	uS/cm			FA
pH	8/26/20 09:27	8/26/20 09:27			6.68	SU			FA
Temperature	8/26/20 09:27	8/26/20 09:27			20.20	C			FA
Turbidity	8/26/20 09:27	8/26/20 09:27			4.78	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 09:31
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-4

Laboratory ID Number: BA16061

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16061	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	1.05	1.05	0.104	0.085 to 0.115	68.0	70 to 130	0.00	20
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16061	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	45.4	44.6	0.205	0.17 to 0.23	-150	70 to 130	1.78	20
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 09:31
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-4

Laboratory ID Number: BA16061

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-4V

Location Code: WMWGADAP
Collected: 8/26/20 11:14
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16062

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:28		1.015	0.0611	mg/L	0.03	0.1	J
* Calcium, Total	9/8/20 15:00	9/9/20 11:28		1.015	23.5	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 11:28		1.015	0.509	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 11:28		1.015	0.0203	mg/L	0.01	0.02	
* Magnesium, Total	9/8/20 15:00	9/9/20 11:28		1.015	5.53	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 14:03		10.15	57.2	mg/L	1.015	5.075	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:44		1.015	0.372	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 15:16		1.015	0.534	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:16		1.015	1.01	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 15:16		1.015	0.0586	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 15:16		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 09:15		1.015	0.0541	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:03		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	201	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	239	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-4V

Location Code: WMWGADAP
Collected: 8/26/20 11:14
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16062

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	199	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	1.71	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:49	8/31/20 09:49		1	5.37	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:14	8/31/20 13:14		1	0.217	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:37	9/3/20 12:37		1	1.21	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/26/20 11:11	8/26/20 11:11			360.35	uS/cm			FA
pH	8/26/20 11:11	8/26/20 11:11			7.83	SU			FA
Temperature	8/26/20 11:11	8/26/20 11:11			19.26	C			FA
Turbidity	8/26/20 11:11	8/26/20 11:11			4.95	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 11:14
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-4V

Laboratory ID Number: BA16062

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 11:14
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-4V

Laboratory ID Number: BA16062

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16079	Solids, Dissolved	mg/L	-1.00	25			477	50.0	40 to 60			0.527	5
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-20H

Location Code: WMWGADAP
Collected: 8/26/20 12:11
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16063

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:31		1.015	0.308	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 14:06		10.15	47.6	mg/L	1.015	5.075	
* Iron, Total	9/8/20 15:00	9/9/20 11:31		1.015	3.34	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 11:31		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:31		1.015	14.7	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:31		1.015	15.6	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:47		1.015	3.36	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:19		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:19		1.015	0.00186	mg/L	0.001	0.005	J
* Barium, Total	8/28/20 08:15	8/28/20 15:19		1.015	0.197	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:19		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:19		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 15:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:19		1.015	0.0104	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 15:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:19		1.015	2.62	mg/L	0.3	2.5	
* Manganese, Total	8/28/20 08:15	9/1/20 11:43		92.365	29.3	mg/L	0.092365	0.461825	
* Selenium, Total	8/28/20 08:15	8/28/20 15:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 15:19		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 10:45		92.365	28.2	mg/L	0.092365	0.461825	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	163	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	310	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-20H

Location Code: WMWGADAP
Collected: 8/26/20 12:11
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16063

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	163	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.05	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:50	8/31/20 09:50		1	6.73	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:15	8/31/20 13:15		1	0.103	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:38	9/3/20 12:38		8	112	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/26/20 12:08	8/26/20 12:08			446.93	uS/cm			FA
pH	8/26/20 12:08	8/26/20 12:08			6.36	SU			FA
Temperature	8/26/20 12:08	8/26/20 12:08			19.76	C			FA
Turbidity	8/26/20 12:08	8/26/20 12:08			5.79	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 12:11
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-20H

Laboratory ID Number: BA16063

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 12:11
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-20H

Laboratory ID Number: BA16063

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16079	Solids, Dissolved	mg/L	-1.00	25			477	50.0	40 to 60			0.527	5
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-6

Location Code: WMWGADAP
Collected: 8/26/20 13:01
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16064

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:34		1.015	0.0633	mg/L	0.03	0.1	J
* Calcium, Total	9/8/20 15:00	9/9/20 11:34		1.015	12.9	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 11:34		1.015	0.208	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 11:34		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:34		1.015	3.55	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:34		1.015	12.1	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:50		1.015	0.170	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 15:21		1.015	0.0771	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:21		1.015	1.03	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 15:21		1.015	0.227	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 15:21		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 09:20		1.015	0.215	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:07		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	49.2	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	91.3	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-6

Location Code: WMWGADAP
Collected: 8/26/20 13:01
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16064

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	49.2	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.01	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:51	8/31/20 09:51		1	9.21	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:16	8/31/20 13:16		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:39	9/3/20 12:39		1	13.1	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/26/20 12:57	8/26/20 12:57			149.86	uS/cm			FA
pH	8/26/20 12:57	8/26/20 12:57			5.96	SU			FA
Temperature	8/26/20 12:57	8/26/20 12:57			19.84	C			FA
Turbidity	8/26/20 12:57	8/26/20 12:57			2.74	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 13:01
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-6

Laboratory ID Number: BA16064

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 13:01
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-6

Laboratory ID Number: BA16064

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16079	Solids, Dissolved	mg/L	-1.00	25			477	50.0	40 to 60			0.527	5
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-10

Location Code: WMWGADAP
Collected: 8/26/20 14:22
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16065

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:37		1.015	0.108	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 11:37		1.015	37.8	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 14:09		10.15	21.2	mg/L	0.203	0.5075	
* Lithium, Total	9/8/20 15:00	9/9/20 11:37		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:37		1.015	6.09	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:37		1.015	12.7	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 13:06		10.15	21.6	mg/L	0.203	0.5075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:24		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:24		1.015	0.00422	mg/L	0.001	0.005	J
* Barium, Total	8/28/20 08:15	8/28/20 15:24		1.015	0.322	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:24		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:24		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 15:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:24		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 15:24		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:24		1.015	0.634	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 15:24		1.015	0.724	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 15:24		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 15:24		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 09:23		1.015	0.710	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:10		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	125	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	186	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-10

Location Code: WMWGADAP
Collected: 8/26/20 14:22
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16065

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	125	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.07	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:52	8/31/20 09:52		1	5.39	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:17	8/31/20 13:17		1	0.0997	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:40	9/3/20 12:40		1	10.5	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: DKG***								
Conductivity	8/26/20 14:19	8/26/20 14:19			302.47	uS/cm			FA
pH	8/26/20 14:19	8/26/20 14:19			6.73	SU			FA
Temperature	8/26/20 14:19	8/26/20 14:19			19.96	C			FA
Turbidity	8/26/20 14:19	8/26/20 14:19			7.1	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 14:22
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-10

Laboratory ID Number: BA16065

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 14:22
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond - MW-10

Laboratory ID Number: BA16065

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16079	Solids, Dissolved	mg/L	-1.00	25			477	50.0	40 to 60			0.527	5
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond Equipment Blank-1

Location Code: WMWGADAPEB
Collected: 8/26/20 14:45
Customer ID:
Submittal Date: 8/27/20 12:52

Laboratory ID Number: BA16066

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:40		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 11:40		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	9/8/20 15:00	9/9/20 11:40		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	9/8/20 15:00	9/9/20 11:40		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:40		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	9/8/20 15:00	9/9/20 11:40		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 15:26		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:53	8/31/20 09:53		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:18	8/31/20 13:18		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:42	9/3/20 12:42		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAPEB
Sample Date: 8/26/20 14:45
Customer ID:
Delivery Date: 8/27/20 12:52

Description:Gadsden Ash Pond Equipment Blank-1

Laboratory ID Number: BA16066

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20

Comments:

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAPEB
Sample Date: 8/26/20 14:45
Customer ID:
Delivery Date: 8/27/20 12:52

Description: Gadsden Ash Pond Equipment Blank-1

Laboratory ID Number: BA16066

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16079	Solids, Dissolved	mg/L	-1.00	25			477	50.0	40 to 60			0.527	5
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20

Comments:

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-17

Location Code: WMWGADAP
Collected: 8/24/20 14:45
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16067

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:43		1.015	0.0303	mg/L	0.03	0.1	J
* Calcium, Total	9/8/20 15:00	9/9/20 11:43		1.015	30.8	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 11:43		1.015	0.294	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 11:43		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:43		1.015	5.20	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:43		1.015	24.5	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:56		1.015	0.0266	mg/L	0.02	0.05	J
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 15:29		1.015	0.312	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:29		1.015	0.854	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 15:29		1.015	0.0284	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 15:29		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 09:25		1.015	0.0232	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	126	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	162	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-17

Location Code: WMWGADAP
Collected: 8/24/20 14:45
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16067

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	125	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	1.31	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:55	8/31/20 09:55		1	2.82	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:20	8/31/20 13:20		1	0.163	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:43	9/3/20 12:43		1	10.0	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/24/20 14:40	8/24/20 14:40			282.97	uS/cm			FA
pH	8/24/20 14:40	8/24/20 14:40			8.17	SU			FA
Temperature	8/24/20 14:40	8/24/20 14:40			23.20	C			FA
Turbidity	8/24/20 14:40	8/24/20 14:40			9.38	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/24/20 14:45
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-17

Laboratory ID Number: BA16067

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/24/20 14:45
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-17

Laboratory ID Number: BA16067

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-16

Location Code: WMWGADAP
Collected: 8/25/20 08:15
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16068

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:46		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 11:46		1.015	12.2	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 11:46		1.015	0.0579	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 11:46		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:46		1.015	4.98	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:46		1.015	2.90	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 10:59		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:32		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:32		1.015	0.00237	mg/L	0.001	0.005	J
* Barium, Total	8/28/20 08:15	8/28/20 15:32		1.015	0.0261	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:32		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:32		1.015	0.000507	mg/L	0.0003	0.001	J
* Chromium, Total	8/28/20 08:15	8/28/20 15:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:32		1.015	0.0294	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 15:32		1.015	0.00110	mg/L	0.001	0.005	J
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:32		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:32		1.015	0.347	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 15:32		1.015	0.390	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 15:32		1.015	0.00262	mg/L	0.002	0.01	J
* Thallium, Total	8/28/20 08:15	8/28/20 15:32		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 09:28		1.015	0.373	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	NA	mg/L		0.10	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	131	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. LBM 09/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-16

Location Code: WMWGADAP
Collected: 8/25/20 08:15
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16068

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	NA	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	NA	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:56	8/31/20 09:56		1	2.94	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:21	8/31/20 13:21		1	0.0863	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:44	9/3/20 12:44		4	74.1	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/25/20 08:13	8/25/20 08:13			254.18	uS/cm			FA
pH	8/25/20 08:13	8/25/20 08:13			4.20	SU			FA
Temperature	8/25/20 08:13	8/25/20 08:13			19.33	C			FA
Turbidity	8/25/20 08:13	8/25/20 08:13			3.23	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. LBM 09/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/25/20 08:15
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-16

Laboratory ID Number: BA16068

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. LBM 09/30/2020

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/25/20 08:15
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-16

Laboratory ID Number: BA16068

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. LBM 09/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-16 DUP

Location Code: WMWGADAP
Collected: 8/25/20 08:15
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16069

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:49		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 11:49		1.015	12.3	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 11:49		1.015	0.0620	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 11:49		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:49		1.015	4.99	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:49		1.015	2.88	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 11:01		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:34		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:34		1.015	0.00242	mg/L	0.001	0.005	J
* Barium, Total	8/28/20 08:15	8/28/20 15:34		1.015	0.0257	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:34		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:34		1.015	0.000669	mg/L	0.0003	0.001	J
* Chromium, Total	8/28/20 08:15	8/28/20 15:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:34		1.015	0.0300	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 15:34		1.015	0.00108	mg/L	0.001	0.005	J
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:34		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:34		1.015	0.355	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 15:34		1.015	0.397	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 15:34		1.015	0.00284	mg/L	0.002	0.01	J
* Thallium, Total	8/28/20 08:15	8/28/20 15:34		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 09:31		1.015	0.375	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	NA	mg/L		0.10	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	121	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. LBM 09/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-16 DUP

Location Code: WMWGADAP
Collected: 8/25/20 08:15
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16069

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	NA	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	NA	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:57	8/31/20 09:57		1	2.88	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:22	8/31/20 13:22		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:45	9/3/20 12:45		4	79.1	mg/L	2.00	4	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/25/20 08:13	8/25/20 08:13			254.18	uS/cm			FA
pH	8/25/20 08:13	8/25/20 08:13			4.20	SU			FA
Temperature	8/25/20 08:13	8/25/20 08:13			19.33	C			FA
Turbidity	8/25/20 08:13	8/25/20 08:13			3.23	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. LBM 09/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/25/20 08:15
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-16 DUP

Laboratory ID Number: BA16069

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. LBM 09/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/25/20 08:15
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-16 DUP

Laboratory ID Number: BA16069

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. LBM 09/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-14

Location Code: WMWGADAP
Collected: 8/25/20 09:38
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16070

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 11:52		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 11:52		1.015	13.1	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 11:52		1.015	0.0464	mg/L	0.02	0.05	J
* Lithium, Total	9/8/20 15:00	9/9/20 11:52		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 11:52		1.015	5.19	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 11:52		1.015	2.43	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 11:04		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:37		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:37		1.015	0.00200	mg/L	0.001	0.005	J
* Barium, Total	8/28/20 08:15	8/28/20 15:37		1.015	0.0291	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:37		1.015	0.00117	mg/L	0.0006	0.003	J
* Cadmium, Total	8/28/20 08:15	8/28/20 15:37		1.015	0.000584	mg/L	0.0003	0.001	J
* Chromium, Total	8/28/20 08:15	8/28/20 15:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:37		1.015	0.0365	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 15:37		1.015	0.00180	mg/L	0.001	0.005	J
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:37		1.015	0.390	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 15:37		1.015	0.545	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 15:37		1.015	0.00247	mg/L	0.002	0.01	J
* Thallium, Total	8/28/20 08:15	8/28/20 15:37		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 09:33		1.015	0.514	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	NA	mg/L		0.10	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	160	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. MS recovery for Fluoride is out of specification. LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-14

Location Code: WMWGADAP
Collected: 8/25/20 09:38
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16070

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	NA	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	NA	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 09:58	8/31/20 09:58		1	3.03	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:23	8/31/20 13:23		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 12:46	9/3/20 12:46		16	98.4	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/25/20 09:34	8/25/20 09:34			292.74	uS/cm			FA
pH	8/25/20 09:34	8/25/20 09:34			4.03	SU			FA
Temperature	8/25/20 09:34	8/25/20 09:34			18.95	C			FA
Turbidity	8/25/20 09:34	8/25/20 09:34			3.45	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. MS recovery for Fluoride is out of specification. LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/25/20 09:38
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-14

Laboratory ID Number: BA16070

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Barium, Total	mg/L	-0.000005	0.0002	0.10	0.138	0.137	0.102	0.085 to 0.115	109	70 to 130	0.727	20
BA16070	Cadmium, Total	mg/L	0.0000031	0.0001474	0.10	0.106	0.102	0.103	0.085 to 0.115	105	70 to 130	3.85	20
BA16070	Boron, Total	mg/L	-0.000106	0.0650254	1.00	0.989	0.991	0.987	0.85 to 1.15	98.9	70 to 130	0.202	20
BA16070	Chromium, Total	mg/L	-0.0000072	0.00044	0.10	0.0986	0.105	0.105	0.085 to 0.115	98.6	70 to 130	6.29	20
BA16070	Mercury, Total by CVAA	mg/L	-0.00000376	0.0005	0.004	0.00405	0.00406	0.00397	0.0034 to 0.0046	101	70 to 130	0.247	20
BA16070	Lithium, Total	mg/L	-0.0000848	0.0154	0.200	0.202	0.201	0.192	0.17 to 0.23	101	70 to 130	0.496	20
BA16070	Iron, Total	mg/L	0.000496	0.0176	0.2	0.238	0.241	0.199	0.17 to 0.23	95.8	70 to 130	1.25	20
BA16070	Magnesium, Total	mg/L	0.000171	0.0462	5.00	10.2	10.1	4.97	4.25 to 5.75	100	70 to 130	0.985	20
BA16070	Lead, Total	mg/L	0.0000082	0.0001474	0.10	0.113	0.115	0.106	0.085 to 0.115	111	70 to 130	1.75	20
BA16070	Manganese, Total	mg/L	0.0000261	0.0001474	0.10	0.618	0.650	0.108	0.085 to 0.115	73.0	70 to 130	5.05	20
BA16070	Sodium, Total	mg/L	-0.000249	0.044	5.00	7.73	7.62	5.08	4.25 to 5.75	106	70 to 130	1.43	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16070	Cobalt, Total	mg/L	-0.0000026	0.0001474	0.10	0.131	0.138	0.103	0.085 to 0.115	94.5	70 to 130	5.20	20
BA16070	Thallium, Total	mg/L	0.0000091	0.0001474	0.10	0.110	0.107	0.104	0.085 to 0.115	110	70 to 130	2.76	20
BA16070	Arsenic, Total	mg/L	0.000021	0.0001474	0.10	0.102	0.103	0.105	0.085 to 0.115	100	70 to 130	0.976	20
BA16070	Calcium, Total	mg/L	-0.00353	0.1518	5.00	18.1	18.0	5.02	4.25 to 5.75	100	70 to 130	0.554	20
BA16070	Potassium, Total	mg/L	0.0133	0.3674	10.0	10.2	10.5	10.0	8.5 to 11.5	98.1	70 to 130	2.90	20
BA16070	Selenium, Total	mg/L	-0.0000306	0.001	0.10	0.0900	0.0885	0.103	0.085 to 0.115	87.5	70 to 130	1.68	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16070	Beryllium, Total	mg/L	0.0000324	0.00088	0.10	0.0986	0.102	0.0967	0.085 to 0.115	97.4	70 to 130	3.39	20
BA16070	Molybdenum, Total	mg/L	0.000007	0.0001474	0.10	0.0930	0.0904	0.0999	0.085 to 0.115	93.0	70 to 130	2.84	20
BA16070	Antimony, Total	mg/L	0.000243	0.001	0.10	0.104	0.105	0.0973	0.085 to 0.115	104	70 to 130	0.957	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. MS recovery for Fluoride is out of specification. LBM 9/30/2020

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/25/20 09:38
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-14

Laboratory ID Number: BA16070

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16070	Chloride	mg/L	0.0395	0.50	10.0	12.9	3.05	9.91	9 to 11	98.7	80 to 120	0.658	20
BA16070	Fluoride	mg/L	0.00113	0.05	2.50	-0.181	-0.0457	2.26	2.25 to 2.75	0	80 to 120	0	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16070	Sulfate	mg/L	0.264	0.50	320	409	110	20.4	18 to 22	97.1	80 to 120	11.1	20
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified. Alkalinity reported as N/A due to initial pH was less than the 4.5 titration end point. Fluoride result is qualified due to negative interference, possibly from high levels of polyvalent cations. MS recovery for Fluoride is out of specification. LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-1

Location Code: WMWGADAP
Collected: 8/25/20 11:30
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16071

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:12		1.015	1.11	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 14:12		10.15	218	mg/L	1.015	5.075	
* Iron, Total	9/8/20 15:00	9/9/20 12:12		1.015	3.80	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 12:12		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 14:12		10.15	45.3	mg/L	1.015	5.075	
* Sodium, Total	9/8/20 15:00	9/9/20 12:12		1.015	22.2	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 11:07		1.015	3.80	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 15:58		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 15:58		1.015	0.00435	mg/L	0.001	0.005	J
* Barium, Total	8/28/20 08:15	8/28/20 15:58		1.015	0.0358	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 15:58		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 15:58		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 15:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 15:58		1.015	0.0193	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 15:58		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 15:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 15:58		1.015	10.7	mg/L	0.3	2.5	
* Manganese, Total	8/28/20 08:15	9/1/20 11:46		10.15	5.37	mg/L	0.01015	0.05075	
* Selenium, Total	8/28/20 08:15	8/28/20 15:58		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 15:58		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 10:48		10.15	5.29	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	131	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	1060	mg/L		83.3	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-1

Location Code: WMWGADAP
Collected: 8/25/20 11:30
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16071

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	131	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.02	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:08	8/31/20 11:08		1	5.59	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:36	8/31/20 13:36		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:08	9/3/20 13:08		40	642	mg/L	20.0	40	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/25/20 11:25	8/25/20 11:25			1114.2	uS/cm			FA
pH	8/25/20 11:25	8/25/20 11:25			6.00	SU			FA
Temperature	8/25/20 11:25	8/25/20 11:25			18.21	C			FA
Turbidity	8/25/20 11:25	8/25/20 11:25			4.99	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/25/20 11:30
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-1

Laboratory ID Number: BA16071

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/25/20 11:30
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-1

Laboratory ID Number: BA16071

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-18H

Location Code: WMWGADAP
Collected: 8/25/20 12:25
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16072

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:15		1.015	0.105	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 12:15		1.015	14.9	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 12:15		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	9/8/20 15:00	9/9/20 12:15		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:15		1.015	6.17	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 12:15		1.015	6.51	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 11:10		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 16:01		1.015	0.0388	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:01		1.015	1.10	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 16:01		1.015	0.0243	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:01		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 09:38		1.015	0.0229	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:57	9/2/20 11:50		1	3.80	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	107	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-18H

Location Code: WMWGADAP
Collected: 8/25/20 12:25
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16072

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	3.80	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:57	9/2/20 11:50		1	0.00	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:09	8/31/20 11:09		1	5.79	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:37	8/31/20 13:37		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:09	9/3/20 13:09		3	52.6	mg/L	1.50	3	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/25/20 12:23	8/25/20 12:23			179.89	uS/cm			FA
pH	8/25/20 12:23	8/25/20 12:23			5.13	SU			FA
Temperature	8/25/20 12:23	8/25/20 12:23			17.07	C			FA
Turbidity	8/25/20 12:23	8/25/20 12:23			2.87	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/25/20 12:25
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-18H

Laboratory ID Number: BA16072

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20
BA16072	Iron, Dissolved	mg/L	0.000122	0.0176	0.2	0.209	0.205	0.205	0.17 to 0.23	104	70 to 130	1.93	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16072	Manganese, Dissolved	mg/L	-0.0000163	0.0001474	0.10	0.126	0.126	0.104	0.085 to 0.115	103	70 to 130	0.00	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/25/20 12:25
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-18H

Laboratory ID Number: BA16072

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16072	Alkalinity, Total as CaCO3	mg/L					3.96	50.4	45.0 to 55.0			4.12	10
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond Field Blank-1

Location Code: WMWGADAPFB
Collected: 8/25/20 14:15
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16073

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:18		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 12:18		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	9/8/20 15:00	9/9/20 12:18		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	9/8/20 15:00	9/9/20 12:18		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:18		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	9/8/20 15:00	9/9/20 12:18		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:03		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:10	8/31/20 11:10		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:38	8/31/20 13:38		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:02	9/3/20 13:02		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAPFB
Sample Date: 8/25/20 14:15
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond Field Blank-1

Laboratory ID Number: BA16073

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20

Comments:

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAPFB
Sample Date: 8/25/20 14:15
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond Field Blank-1

Laboratory ID Number: BA16073

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20

Comments:

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-7

Location Code: WMWGADAP
Collected: 8/26/20 08:48
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16074

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:21		1.015	0.0665	mg/L	0.03	0.1	J
* Calcium, Total	9/8/20 15:00	9/9/20 12:21		1.015	16.7	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 12:21		1.015	0.0610	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 12:21		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:21		1.015	3.57	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 12:21		1.015	15.0	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 11:31		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 16:06		1.015	0.0845	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.3	2.5	U
* Manganese, Total	8/28/20 08:15	8/28/20 16:06		1.015	0.0942	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:06		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 10:00		1.015	0.0848	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:35	9/2/20 10:55		1	74.5	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	109	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-7

Location Code: WMWGADAP
Collected: 8/26/20 08:48
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16074

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	74.5	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	0.02	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:11	8/31/20 11:11		1	6.19	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:40	8/31/20 13:40		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:03	9/3/20 13:03		1	9.19	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/26/20 08:44	8/26/20 08:44			185.58	uS/cm			FA
pH	8/26/20 08:44	8/26/20 08:44			6.11	SU			FA
Temperature	8/26/20 08:44	8/26/20 08:44			18.79	C			FA
Turbidity	8/26/20 08:44	8/26/20 08:44			1.65	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 08:48
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-7

Laboratory ID Number: BA16074

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Manganese, Dissolved	mg/L	0.0000032	0.0001474	0.10	0.956	0.946	0.104	0.085 to 0.115	83.0	70 to 130	1.05	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Iron, Dissolved	mg/L	0.000143	0.0176	0.2	2.49	2.49	0.210	0.17 to 0.23	95.0	70 to 130	0.00	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 08:48
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-7

Laboratory ID Number: BA16074

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Alkalinity, Total as CaCO3	mg/L					74.0	49.9	45.0 to 55.0			3.58	10
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-7 DUP

Location Code: WMWGADAP
Collected: 8/26/20 08:48
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16075

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:24		1.015	0.0670	mg/L	0.03	0.1	J
* Calcium, Total	9/8/20 15:00	9/9/20 12:24		1.015	16.8	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 12:24		1.015	0.0591	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 12:24		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:24		1.015	3.63	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 12:24		1.015	15.0	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 11:34		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 16:09		1.015	0.0833	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.3	2.5	U
* Manganese, Total	8/28/20 08:15	8/28/20 16:09		1.015	0.0955	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:09		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 10:02		1.015	0.0849	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:35	9/2/20 10:55		1	70.0	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	8/28/20 14:35	9/1/20 16:05		1	108	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-7 DUP

Location Code: WMWGADAP
Collected: 8/26/20 08:48
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16075

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	70.0	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	0.02	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:12	8/31/20 11:12		1	6.11	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:41	8/31/20 13:41		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:04	9/3/20 13:04		1	8.93	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/26/20 08:44	8/26/20 08:44			185.58	uS/cm			FA
pH	8/26/20 08:44	8/26/20 08:44			6.11	SU			FA
Temperature	8/26/20 08:44	8/26/20 08:44			18.79	C			FA
Turbidity	8/26/20 08:44	8/26/20 08:44			1.65	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 08:48
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-7 DUP

Laboratory ID Number: BA16075

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Manganese, Dissolved	mg/L	0.0000032	0.0001474	0.10	0.956	0.946	0.104	0.085 to 0.115	83.0	70 to 130	1.05	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Iron, Dissolved	mg/L	0.000143	0.0176	0.2	2.49	2.49	0.210	0.17 to 0.23	95.0	70 to 130	0.00	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 08:48
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-7 DUP

Laboratory ID Number: BA16075

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16080	Alkalinity, Total as CaCO3	mg/L					74.0	49.9	45.0 to 55.0			3.58	10
BA16075	Solids, Dissolved	mg/L	1.00	25			109	55.0	40 to 60			0.461	5
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-8

Location Code: WMWGADAP
Collected: 8/26/20 10:10
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16076

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:27		1.015	0.0501	mg/L	0.03	0.1	J
* Calcium, Total	9/8/20 15:00	9/9/20 14:15		10.15	55.5	mg/L	1.015	5.075	
* Iron, Total	9/8/20 15:00	9/9/20 14:15		10.15	8.51	mg/L	0.203	0.5075	
* Lithium, Total	9/8/20 15:00	9/9/20 12:27		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:27		1.015	6.24	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 12:27		1.015	10.0	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 13:09		10.15	8.52	mg/L	0.203	0.5075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:11		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:11		1.015	0.00304	mg/L	0.001	0.005	J
* Barium, Total	8/28/20 08:15	8/28/20 16:11		1.015	0.235	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 16:11		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:11		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 16:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:11		1.015	0.00388	mg/L	0.002	0.005	J
* Lead, Total	8/28/20 08:15	8/28/20 16:11		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:11		1.015	0.470	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	9/1/20 15:22		5.075	2.25	mg/L	0.005075	0.025375	
* Selenium, Total	8/28/20 08:15	8/28/20 16:11		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:11		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/4/20 13:13		5.075	2.27	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:35	9/2/20 10:55		1	164	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	215	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-8

Location Code: WMWGADAP
Collected: 8/26/20 10:10
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16076

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	164	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	0.07	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:14	8/31/20 11:14		1	5.16	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:42	8/31/20 13:42		1	0.0732	mg/L	0.06	0.1	J
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:05	9/3/20 13:05		1	16.1	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/26/20 10:08	8/26/20 10:08			349.74	uS/cm			FA
pH	8/26/20 10:08	8/26/20 10:08			6.29	SU			FA
Temperature	8/26/20 10:08	8/26/20 10:08			18.25	C			FA
Turbidity	8/26/20 10:08	8/26/20 10:08			2.53	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 10:10
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-8

Laboratory ID Number: BA16076

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Manganese, Dissolved	mg/L	0.0000032	0.0001474	0.10	0.956	0.946	0.104	0.085 to 0.115	83.0	70 to 130	1.05	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Iron, Dissolved	mg/L	0.000143	0.0176	0.2	2.49	2.49	0.210	0.17 to 0.23	95.0	70 to 130	0.00	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 10:10
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-8

Laboratory ID Number: BA16076

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16080	Alkalinity, Total as CaCO3	mg/L					74.0	49.9	45.0 to 55.0			3.58	10
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20
BA16079	Solids, Dissolved	mg/L	-1.00	25			477	50.0	40 to 60			0.527	5

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-9

Location Code: WMWGADAP
Collected: 8/26/20 11:03
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16077

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:30		1.015	0.0565	mg/L	0.03	0.1	J
* Calcium, Total	9/8/20 15:00	9/9/20 14:24		10.15	43.2	mg/L	1.015	5.075	
* Iron, Total	9/8/20 15:00	9/9/20 12:30		1.015	1.68	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 12:30		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:30		1.015	7.05	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 12:30		1.015	14.2	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 11:40		1.015	1.53	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 16:14		1.015	0.202	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:14		1.015	1.67	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	9/1/20 11:51		5.075	1.51	mg/L	0.005075	0.025375	
* Selenium, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:14		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 10:58		5.075	1.41	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:35	9/2/20 10:55		1	156	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	192	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-9

Location Code: WMWGADAP
Collected: 8/26/20 11:03
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16077

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	156	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	0.22	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:15	8/31/20 11:15		1	6.57	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:43	8/31/20 13:43		1	0.130	mg/L	0.06	0.1	
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:07	9/3/20 13:07		1	12.9	mg/L	0.50	1	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/26/20 10:59	8/26/20 10:59			313.69	uS/cm			FA
pH	8/26/20 10:59	8/26/20 10:59			6.75	SU			FA
Temperature	8/26/20 10:59	8/26/20 10:59			19.03	C			FA
Turbidity	8/26/20 10:59	8/26/20 10:59			3.9	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 11:03
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-9

Laboratory ID Number: BA16077

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Manganese, Dissolved	mg/L	0.0000032	0.0001474	0.10	0.956	0.946	0.104	0.085 to 0.115	83.0	70 to 130	1.05	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Iron, Dissolved	mg/L	0.000143	0.0176	0.2	2.49	2.49	0.210	0.17 to 0.23	95.0	70 to 130	0.00	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 11:03
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-9

Laboratory ID Number: BA16077

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16079	Solids, Dissolved	mg/L	-1.00	25			477	50.0	40 to 60			0.527	5
BA16080	Alkalinity, Total as CaCO3	mg/L					74.0	49.9	45.0 to 55.0			3.58	10
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-11

Location Code: WMWGADAP
Collected: 8/26/20 12:25
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16078

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:33		1.015	0.257	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 14:27		10.15	111	mg/L	1.015	5.075	
* Iron, Total	9/8/20 15:00	9/9/20 14:27		10.15	11.2	mg/L	0.203	0.5075	
* Lithium, Total	9/8/20 15:00	9/9/20 12:33		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:33		1.015	17.6	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 12:33		1.015	15.0	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 13:12		10.15	11.1	mg/L	0.203	0.5075	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:16		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:16		1.015	0.00246	mg/L	0.001	0.005	J
* Barium, Total	8/28/20 08:15	8/28/20 16:16		1.015	0.165	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 16:16		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:16		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 16:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:16		1.015	0.00599	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 16:16		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:16		1.015	2.15	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	9/1/20 11:54		10.15	7.50	mg/L	0.01015	0.05075	
* Selenium, Total	8/28/20 08:15	8/28/20 16:16		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:16		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 11:01		10.15	7.53	mg/L	0.01015	0.05075	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:35	9/2/20 10:55		1	132	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	517	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-11

Location Code: WMWGADAP
Collected: 8/26/20 12:25
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16078

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	132	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	0.04	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:16	8/31/20 11:16		1	4.74	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:44	8/31/20 13:44		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:29	9/3/20 13:29		16	280	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/26/20 12:22	8/26/20 12:22			628.42	uS/cm			FA
pH	8/26/20 12:22	8/26/20 12:22			6.38	SU			FA
Temperature	8/26/20 12:22	8/26/20 12:22			20.08	C			FA
Turbidity	8/26/20 12:22	8/26/20 12:22			7.33	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 12:25
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-11

Laboratory ID Number: BA16078

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Manganese, Dissolved	mg/L	0.0000032	0.0001474	0.10	0.956	0.946	0.104	0.085 to 0.115	83.0	70 to 130	1.05	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Iron, Dissolved	mg/L	0.000143	0.0176	0.2	2.49	2.49	0.210	0.17 to 0.23	95.0	70 to 130	0.00	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 12:25
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-11

Laboratory ID Number: BA16078

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Alkalinity, Total as CaCO3	mg/L					74.0	49.9	45.0 to 55.0			3.58	10
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16079	Solids, Dissolved	mg/L	-1.00	25			477	50.0	40 to 60			0.527	5
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-12

Location Code: WMWGADAP
Collected: 8/26/20 13:17
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16079

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:36		1.015	0.0698	mg/L	0.03	0.1	J
* Calcium, Total	9/8/20 15:00	9/9/20 14:30		10.15	68.4	mg/L	1.015	5.075	
* Iron, Total	9/8/20 15:00	9/9/20 12:36		1.015	0.0383	mg/L	0.02	0.05	J
* Lithium, Total	9/8/20 15:00	9/9/20 12:36		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:36		1.015	34.2	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 12:36		1.015	16.1	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 11:46		1.015	Not Detected	mg/L	0.02	0.05	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:19		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 16:19		1.015	0.0503	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 16:19		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:19		1.015	0.000618	mg/L	0.0003	0.001	J
* Chromium, Total	8/28/20 08:15	8/28/20 16:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:19		1.015	0.00547	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 16:19		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:19		1.015	0.895	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	9/1/20 11:56		5.075	2.78	mg/L	0.005075	0.025375	
* Selenium, Total	8/28/20 08:15	8/28/20 16:19		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:19		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 11:04		5.075	2.59	mg/L	0.005075	0.025375	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:35	9/2/20 10:55		1	34.3	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	472	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-12

Location Code: WMWGADAP
Collected: 8/26/20 13:17
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16079

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	34.3	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	0.00	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:17	8/31/20 11:17		1	5.91	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:46	8/31/20 13:46		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:30	9/3/20 13:30		16	282	mg/L	8.00	16	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/26/20 13:14	8/26/20 13:14			579.07	uS/cm			FA
pH	8/26/20 13:14	8/26/20 13:14			5.63	SU			FA
Temperature	8/26/20 13:14	8/26/20 13:14			18.79	C			FA
Turbidity	8/26/20 13:14	8/26/20 13:14			1.46	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 13:17
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-12

Laboratory ID Number: BA16079

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Manganese, Dissolved	mg/L	0.0000032	0.0001474	0.10	0.956	0.946	0.104	0.085 to 0.115	83.0	70 to 130	1.05	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Iron, Dissolved	mg/L	0.000143	0.0176	0.2	2.49	2.49	0.210	0.17 to 0.23	95.0	70 to 130	0.00	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 13:17
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-12

Laboratory ID Number: BA16079

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16079	Solids, Dissolved	mg/L	-1.00	25			477	50.0	40 to 60			0.527	5
BA16080	Alkalinity, Total as CaCO3	mg/L					74.0	49.9	45.0 to 55.0			3.58	10
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-19H

Location Code: WMWGADAP
Collected: 8/26/20 14:10
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16080

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:39		1.015	0.390	mg/L	0.03	0.1	
* Calcium, Total	9/8/20 15:00	9/9/20 12:39		1.015	39.3	mg/L	0.1	0.5	
* Iron, Total	9/8/20 15:00	9/9/20 12:39		1.015	2.41	mg/L	0.02	0.05	
* Lithium, Total	9/8/20 15:00	9/9/20 12:39		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:39		1.015	7.96	mg/L	0.1	0.5	
* Sodium, Total	9/8/20 15:00	9/9/20 12:39		1.015	13.3	mg/L	0.1	0.5	
Analytical Method: EPA 200.7	***Analyst: RDA***								
* Iron, Dissolved	9/8/20 14:00	9/9/20 11:49		1.015	2.30	mg/L	0.02	0.05	
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:22		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 16:22		1.015	0.201	mg/L	0.002	0.01	
* Beryllium, Total	8/28/20 08:15	8/28/20 16:22		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:22		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 16:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:22		1.015	0.0101	mg/L	0.002	0.005	
* Lead, Total	8/28/20 08:15	8/28/20 16:22		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:22		1.015	1.11	mg/L	0.3	2.5	J
* Manganese, Total	8/28/20 08:15	8/28/20 16:22		1.015	0.888	mg/L	0.001	0.005	
* Selenium, Total	8/28/20 08:15	8/28/20 16:22		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:22		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 200.8	***Analyst: DLJ***								
* Manganese, Dissolved	8/28/20 09:30	9/1/20 10:15		1.015	0.873	mg/L	0.001	0.005	
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 14:59		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2320 B	***Analyst: JAG***								
Alkalinity, Total as CaCO3	9/2/20 10:35	9/2/20 10:55		1	71.4	mg/L		0.1	
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	202	mg/L		25	

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond - MW-19H

Location Code: WMWGADAP
Collected: 8/26/20 14:10
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16080

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 4500CO2 D	***Analyst: JAG***								
Bicarbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	71.4	mg/L			
Carbonate Alkalinity, (calc.)	9/2/20 10:35	9/2/20 10:55		1	0.02	mg/L			
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:18	8/31/20 11:18		1	7.03	mg/L	0.50	1	
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 13:47	8/31/20 13:47		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:31	9/3/20 13:31		8	72.9	mg/L	4.00	8	
Analytical Method: Field Measurements	***Analyst: TJD***								
Conductivity	8/26/20 14:07	8/26/20 14:07			319.69	uS/cm			FA
pH	8/26/20 14:07	8/26/20 14:07			6.33	SU			FA
Temperature	8/26/20 14:07	8/26/20 14:07			18.79	C			FA
Turbidity	8/26/20 14:07	8/26/20 14:07			3.97	NTU			FA

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

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAP
Sample Date: 8/26/20 14:10
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-19H

Laboratory ID Number: BA16080

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.111	0.111	0.112	0.085 to 0.115	111	70 to 130	0.00	20
BA16080	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0977	0.0973	0.0967	0.085 to 0.115	97.7	70 to 130	0.410	20
BA16080	Iron, Total	mg/L	0.000192	0.0176	0.2	2.59	2.61	0.198	0.17 to 0.23	90.0	70 to 130	0.769	20
BA16080	Lithium, Total	mg/L	-0.000211	0.0154	0.200	0.206	0.207	0.192	0.17 to 0.23	103	70 to 130	0.484	20
BA16080	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.101	0.104	0.103	0.085 to 0.115	101	70 to 130	2.93	20
BA16080	Mercury, Total by CVAA	mg/L	-0.00000504	0.0005	0.004	0.00386	0.00381	0.00391	0.0034 to 0.0046	96.5	70 to 130	1.30	20
BA16080	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.104	0.103	0.085 to 0.115	103	70 to 130	0.966	20
BA16080	Sodium, Total	mg/L	0.000462	0.044	5.00	18.3	18.6	5.00	4.25 to 5.75	100	70 to 130	1.63	20
BA16080	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.108	0.106	0.105	0.085 to 0.115	108	70 to 130	1.87	20
BA16080	Manganese, Dissolved	mg/L	0.0000032	0.0001474	0.10	0.956	0.946	0.104	0.085 to 0.115	83.0	70 to 130	1.05	20
BA16080	Boron, Total	mg/L	0.0000407	0.0650254	1.00	1.38	1.39	0.987	0.85 to 1.15	99.0	70 to 130	0.722	20
BA16080	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.114	0.114	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16080	Antimony, Total	mg/L	0.000271	0.001	0.10	0.104	0.105	0.103	0.085 to 0.115	104	70 to 130	0.957	20
BA16080	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.105	0.105	0.103	0.085 to 0.115	105	70 to 130	0.00	20
BA16080	Calcium, Total	mg/L	-0.00439	0.1518	5.00	43.0	43.7	5.03	4.25 to 5.75	74.0	70 to 130	1.61	20
BA16080	Potassium, Total	mg/L	0.0213	0.3674	10.0	11.6	11.3	10.2	8.5 to 11.5	105	70 to 130	2.62	20
BA16080	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	12.9	13.0	4.99	4.25 to 5.75	98.8	70 to 130	0.772	20
BA16080	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	1.01	0.992	0.107	0.085 to 0.115	122	70 to 130	1.80	20
BA16080	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.109	0.111	0.110	0.085 to 0.115	109	70 to 130	1.82	20
BA16080	Barium, Total	mg/L	0.00002	0.0002	0.10	0.307	0.309	0.109	0.085 to 0.115	106	70 to 130	0.649	20
BA16080	Iron, Dissolved	mg/L	0.000143	0.0176	0.2	2.49	2.49	0.210	0.17 to 0.23	95.0	70 to 130	0.00	20
BA16080	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0940	0.0961	0.0965	0.085 to 0.115	94.0	70 to 130	2.21	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAP
Sample Date: 8/26/20 14:10
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond - MW-19H

Laboratory ID Number: BA16080

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16080	Alkalinity, Total as CaCO3	mg/L					74.0	49.9	45.0 to 55.0			3.58	10
BA16080	Sulfate	mg/L	0.00609	0.50	160	227	70.4	19.8	18 to 22	96.3	80 to 120	3.49	20
BA16080	Fluoride	mg/L	0.0107	0.05	2.50	2.58	0.0368	2.42	2.25 to 2.75	103	80 to 120	0.00	20
BA16080	Solids, Dissolved	mg/L	-1.00	25			205	50.0	40 to 60			0.737	5
BA16080	Chloride	mg/L	0.00802	0.50	10.0	16.8	6.94	9.93	9 to 11	97.7	80 to 120	1.29	20

Comments: The client submitted filtered samples for dissolved analysis, but no MB or LCS were submitted. Therefore, dissolved data is qualified.
LBM 9/30/2020

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Certificate Of Analysis

Alabama Power

Description: Gadsden Ash Pond Field Blank-2

Location Code: WMWGADAPFB
Collected: 8/26/20 14:40
Customer ID:
Submittal Date: 8/27/20 12:53

Laboratory ID Number: BA16081

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7	***Analyst: RDA***				***Preparation Method: EPA 1638***				
* Boron, Total	9/8/20 15:00	9/9/20 12:53		1.015	Not Detected	mg/L	0.03	0.1	U
* Calcium, Total	9/8/20 15:00	9/9/20 12:53		1.015	Not Detected	mg/L	0.1	0.5	U
* Iron, Total	9/8/20 15:00	9/9/20 12:53		1.015	Not Detected	mg/L	0.02	0.05	U
* Lithium, Total	9/8/20 15:00	9/9/20 12:53		1.015	Not Detected	mg/L	0.01	0.02	U
* Magnesium, Total	9/8/20 15:00	9/9/20 12:53		1.015	Not Detected	mg/L	0.1	0.5	U
* Sodium, Total	9/8/20 15:00	9/9/20 12:53		1.015	Not Detected	mg/L	0.1	0.5	U
Analytical Method: EPA 200.8	***Analyst: DLJ***				***Preparation Method: EPA 1638***				
* Antimony, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.0008	0.003	U
* Arsenic, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Barium, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Beryllium, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.0006	0.003	U
* Cadmium, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.0003	0.001	U
* Chromium, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Cobalt, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.002	0.005	U
* Lead, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Molybdenum, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Manganese, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.001	0.005	U
* Potassium, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.3	2.5	U
* Selenium, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.002	0.01	U
* Thallium, Total	8/28/20 08:15	8/28/20 16:37		1.015	Not Detected	mg/L	0.0002	0.001	U
Analytical Method: EPA 245.1	***Analyst: ABB***								
* Mercury, Total by CVAA	9/1/20 10:10	9/1/20 15:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: SM 2540C	***Analyst: TJW***								
* Solids, Dissolved	9/1/20 16:00	9/8/20 10:45		1	Not Detected	mg/L		25	U
Analytical Method: SM4500Cl E	***Analyst: JCC***								
* Chloride	8/31/20 11:30	8/31/20 11:30		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017	***Analyst: JCC***								
* Fluoride	8/31/20 14:01	8/31/20 14:01		1	Not Detected	mg/L	0.06	0.1	U
Analytical Method: SM4500SO4 E 2011	***Analyst: JCC***								
* Sulfate	9/3/20 13:44	9/3/20 13:44		1	Not Detected	mg/L	0.50	1	U

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

Comments:

Reported: 10/1/2020
Version: 3.1
COA_CCR

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

Batch QC Summary

Alabama Power

Customer Account: WMWGADAPFB
Sample Date: 8/26/20 14:40
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond Field Blank-2

Laboratory ID Number: BA16081

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16081	Lithium, Total	mg/L	-0.000211	0.0154	0.20	0.192	0.189	0.192	0.17 to 0.23	96.0	70 to 130	1.57	20
BA16081	Mercury, Total by CVAA	mg/L	-0.00000469	0.0005	0.004	0.00389	0.00393	0.00391	0.0034 to 0.0046	97.2	70 to 130	1.02	20
BA16081	Molybdenum, Total	mg/L	0.0000158	0.0001474	0.10	0.103	0.103	0.103	0.085 to 0.115	103	70 to 130	0.00	20
BA16081	Beryllium, Total	mg/L	0.0000223	0.00088	0.10	0.0872	0.0915	0.0967	0.085 to 0.115	87.2	70 to 130	4.81	20
BA16081	Potassium, Total	mg/L	0.0213	0.3674	10.0	10.3	10.6	10.2	8.5 to 11.5	103	70 to 130	2.87	20
BA16081	Magnesium, Total	mg/L	-0.00127	0.0462	5.00	5.08	5.00	4.99	4.25 to 5.75	102	70 to 130	1.59	20
BA16081	Barium, Total	mg/L	0.00002	0.0002	0.10	0.107	0.109	0.109	0.085 to 0.115	107	70 to 130	1.85	20
BA16081	Chromium, Total	mg/L	-0.0000175	0.00044	0.10	0.107	0.108	0.105	0.085 to 0.115	107	70 to 130	0.930	20
BA16081	Manganese, Total	mg/L	0.0000853	0.0001474	0.10	0.110	0.110	0.107	0.085 to 0.115	110	70 to 130	0.00	20
BA16081	Sodium, Total	mg/L	0.000462	0.044	5.00	5.08	4.92	5.00	4.25 to 5.75	102	70 to 130	3.20	20
BA16081	Lead, Total	mg/L	0.000015	0.0001474	0.10	0.109	0.111	0.112	0.085 to 0.115	109	70 to 130	1.82	20
BA16081	Boron, Total	mg/L	0.0000407	0.0650254	1.00	0.989	0.978	0.987	0.85 to 1.15	98.9	70 to 130	1.12	20
BA16081	Iron, Total	mg/L	0.000192	0.0176	0.2	0.199	0.196	0.198	0.17 to 0.23	99.5	70 to 130	1.52	20
BA16081	Antimony, Total	mg/L	0.000271	0.001	0.10	0.0986	0.102	0.103	0.085 to 0.115	98.6	70 to 130	3.39	20
BA16081	Selenium, Total	mg/L	-0.0000582	0.001	0.10	0.0953	0.0979	0.0965	0.085 to 0.115	95.3	70 to 130	2.69	20
BA16081	Arsenic, Total	mg/L	0.0000189	0.0001474	0.10	0.104	0.104	0.103	0.085 to 0.115	104	70 to 130	0.00	20
BA16081	Calcium, Total	mg/L	-0.00439	0.1518	5.00	5.12	5.02	5.03	4.25 to 5.75	102	70 to 130	1.97	20
BA16081	Cadmium, Total	mg/L	0.0000032	0.0001474	0.10	0.104	0.102	0.103	0.085 to 0.115	104	70 to 130	1.94	20
BA16081	Cobalt, Total	mg/L	-0.0000012	0.0001474	0.10	0.106	0.106	0.103	0.085 to 0.115	106	70 to 130	0.00	20
BA16081	Thallium, Total	mg/L	0.0000103	0.0001474	0.10	0.110	0.110	0.110	0.085 to 0.115	110	70 to 130	0.00	20

Comments:

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

Alabama Power

Batch QC Summary

Customer Account: WMWGADAPFB
Sample Date: 8/26/20 14:40
Customer ID:
Delivery Date: 8/27/20 12:53

Description: Gadsden Ash Pond Field Blank-2

Laboratory ID Number: BA16081

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BA16081	Sulfate	mg/L	-0.364	0.50	20.0	20.6	-0.383	19.7	18 to 22	103	80 to 120	0.00	20
BA16081	Fluoride	mg/L	0.0177	0.05	2.50	2.53	0.0112	2.43	2.25 to 2.75	101	80 to 120	0.00	20
BA16080	Solids, Dissolved	mg/L	-1.00	25			205	50.0	40 to 60			0.737	5
BA16081	Chloride	mg/L	0.0624	0.50	10.0	10.2	0.105	9.91	9 to 11	102	80 to 120	0.00	20

Comments:

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

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Gerson Pickett	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Gadsden Ash Pond

Bottles

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

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-1	08/24/2020	10:50	6	Groundwater		BA16051
PZ-2	08/24/2020	12:24	6	Groundwater		BA16052
PZ-5	08/24/2020	13:38	6	Groundwater		BA16053
PZ-6	08/24/2020	14:37	6	Groundwater		BA16054
MW-5	08/24/2020	15:47	6	Groundwater		BA16055
FB-3	08/24/2020	16:05	4	Field Blank		BA16056
MW-2VA	08/25/2020	11:50	6	Groundwater		BA16057
MW-2	08/25/2020	13:24	6	Groundwater		BA16058
MW-3	08/26/2020	08:29	6	Groundwater		BA16059
MW-3 dup	08/26/2020	08:29	6	Sample Duplicate		BA16060
MW-4	08/26/2020	09:31	6	Groundwater		BA16061
MW-4V	08/26/2020	11:14	6	Groundwater		BA16062
MW-20H	08/26/2020	12:11	6	Groundwater		BA16063
MW-6	08/26/2020	13:01	6	Groundwater		BA16064
MW-10	08/26/2020	14:22	6	Groundwater		BA16065
EB-1	08/26/2020	14:45	4	Equipment Blank		BA16066

Relinquished By	Received By	Date/Time
Dallas Gentry	Laura Mayo	08/27/2020 08:39

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2	☑
Turbidity ID	7081-38476-1-1	Cooler Temp	0.7 degrees C
Sample Event	1295	Thermometer ID	5408-27568-2-2
		pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☐ Outside Lab
☑ Lab Complete

Lab ETA: 08/27/2020 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Gerson Pickett	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Gadsden Ash Pond

Bottles

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

Comments:

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17	08/24/2020	14:45	6	Groundwater		BA16067
MW-16	08/25/2020	08:15	6	Groundwater		BA16068
MW-16 Dup	08/25/2020	08:15	6	Sample Duplicate		BA16069
MW-14	08/25/2020	09:38	6	Groundwater		BA16070
MW-1	08/25/2020	11:30	6	Groundwater		BA16071
MW-18H	08/25/2020	12:25	6	Groundwater		BA16072
FB-1	08/25/2020	14:15	4	Field Blank		BA16073
MW-7	08/26/2020	08:48	6	Groundwater		BA16074
MW-7 Dup	08/26/2020	08:48	6	Sample Duplicate		BA16075
MW-8	08/26/2020	10:10	6	Groundwater		BA16076
MW-9	08/26/2020	11:03	6	Groundwater		BA16077
MW-11	08/26/2020	12:25	6	Groundwater		BA16078
MW-12	08/26/2020	13:17	6	Groundwater		BA16079
MW-19H	08/26/2020	14:10	6	Groundwater		BA16080
FB-2	08/26/2020	14:40	4	Field Blank		BA16081

Relinquished By	Received By	Date/Time
		08/27/2020 09:54

SmarTroll ID	7586-41445-5-4	All metals and radiological bottles have pH < 2	☑
Turbidity ID	4677-23342-4-1	Cooler Temp	0.0 degrees C
Sample Event	1295	Thermometer ID	5408-27568-2-2
		pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

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
Site Representative	Gerson Pickett	Requested By	Greg Dyer
Collector	Dallas Gentry	Location	Gadsden 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 MS/MSD collected at PZ-1

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
PZ-1	08/24/2020	10:50	3	Groundwater		BA16082
PZ-2	08/24/2020	12:24	1	Groundwater		BA16083
PZ-5	08/24/2020	13:38	1	Groundwater		BA16084
PZ-6	08/24/2020	14:37	1	Groundwater		BA16085
MW-5	08/24/2020	15:47	1	Groundwater		BA16086
FB-3	08/24/2020	16:05	1	Field Blank		BA16087
MW-2VA	08/25/2020	11:50	1	Groundwater		BA16088
MW-2	08/25/2020	13:24	1	Groundwater		BA16089
MW-3	08/26/2020	08:29	1	Groundwater		BA16090
MW-3 dup	08/26/2020	08:29	1	Sample Duplicate		BA16091
MW-4	08/26/2020	09:31	1	Groundwater		BA16092
MW-4V	08/26/2020	11:14	1	Groundwater		BA16093
MW-20H	08/26/2020	12:11	1	Groundwater		BA16094
MW-6	08/26/2020	13:01	1	Groundwater		BA16095
MW-10	08/26/2020	14:22	1	Groundwater		BA16096
EB-1	08/26/2020	14:45	1	Equipment Blank		BA16097

Relinquished By	Received By	Date/Time
		08/27/2020 08:39

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2	☑
Turbidity ID	7081-38476-1-1	Cooler Temp	N/A
Sample Event	1295	Thermometer ID	N/A
		pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

Chain of Custody
Groundwater
APC General Testing Laboratory

☑ Field Complete ☑ Lab Complete ☑ Outside Lab

Lab ETA: 08/27/2020 11:00

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Site Representative	Gerson Pickett	Requested By	Greg Dyer
Collector	TJ Daugherty	Location	Gadsden 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 MS/MSD collected @ MW-14

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17	08/24/2020	14:45	1	Groundwater		BA16098
MW-16	08/25/2020	08:15	1	Groundwater		BA16099
MW-16 Dup	08/25/2020	08:15	1	Sample Duplicate		BA16100
MW-14	08/25/2020	09:38	3	Groundwater		BA16101
MW-1	08/25/2020	11:30	1	Groundwater		BA16102
MW-18H	08/25/2020	12:25	1	Groundwater		BA16103
FB-1	08/25/2020	14:15	1	Field Blank		BA16104
MW-7	08/26/2020	08:48	1	Groundwater		BA16105
MW-7 Dup	08/26/2020	08:48	1	Sample Duplicate		BA16106
MW-8	08/26/2020	10:10	1	Groundwater		BA16107
MW-9	08/26/2020	11:03	1	Groundwater		BA16108
MW-11	08/26/2020	12:25	1	Groundwater		BA16109
MW-12	08/26/2020	13:17	1	Groundwater		BA16110
MW-19H	08/26/2020	14:10	1	Groundwater		BA16111
FB-2	08/26/2020	14:40	1	Field Blank		BA16112

Relinquished By	Received By	Date/Time
		08/27/2020 09:54

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	1295	Thermometer ID	N/A
		pH Strip ID	8129-45506-2-1

Bottles/Pre-Preserved Bottles are provided by the GTL

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ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
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Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-192721-1
Laboratory Sample Delivery Group: Gadsden Ash Pond 1295
Client Project/Site: CCR Plant Gadsden

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:
10/7/2020 7:21:35 PM

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Job ID: 400-192721-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

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RAD

Method 9315: Radium-226 prep batch 160-481469. 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. BA16100 MW-16 DUP (400-192721-19), BA16101 MW-14 (400-192721-20), BA16101 MW-14 (400-192721-20[MS]), BA16101 MW-14 (400-192721-20[MSD]), BA16102 MW-1 (400-192721-21), BA16103 MW-18H (400-192721-22), BA16104 FB-1 (400-192721-23), BA16105 MW-7 (400-192721-24), BA16106 MW-7 DUP (400-192721-25), BA16107 MW-8 (400-192721-26), BA16108 MW-9 (400-192721-27), BA16109 MW-11 (400-192721-28), BA16110 MW-12 (400-192721-29), BA16111 MW-19H (400-192721-30), BA16112 FB-2 (400-192721-31), (LCS 160-481469/1-A) and (MB 160-481469/23-A)

Method 9315: Radium-226 prep batch 160-481462. 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. BA16082 PZ-1 (400-192721-1), BA16082 PZ-1 (400-192721-1[MS]), BA16082 PZ-1 (400-192721-1[MSD]), BA16083 PZ-2 (400-192721-2), BA16084 PZ-5 (400-192721-3), BA16085 PZ-6 (400-192721-4), BA16086 MW-5 (400-192721-5), BA16087 FB-3 (400-192721-6), BA16088 MW-2VA (400-192721-7), BA16089 MW-2 (400-192721-8), BA16090 MW-3 (400-192721-9), BA16091 MW-3 DUP (400-192721-10), BA16092 MW-4 (400-192721-11), BA16093 MW-4V (400-192721-12), BA16094 MW-20H (400-192721-13), BA16095 MW-6 (400-192721-14), BA16096 MW-10 (400-192721-15), BA16097 EB-1 (400-192721-16), BA16098 MW-17 (400-192721-17), BA16099 MW-16 (400-192721-18), (LCS 160-481462/1-A) and (MB 160-481462/24-A)

Method 9320: Radium-228 prep batch 160-481471. 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. BA16100 MW-16 DUP (400-192721-19), BA16101 MW-14 (400-192721-20), BA16101 MW-14 (400-192721-20[MS]), BA16101 MW-14 (400-192721-20[MSD]), BA16102 MW-1 (400-192721-21), BA16103 MW-18H (400-192721-22), BA16104 FB-1 (400-192721-23), BA16105 MW-7 (400-192721-24), BA16106 MW-7 DUP (400-192721-25), BA16107 MW-8 (400-192721-26), BA16108 MW-9 (400-192721-27), BA16109 MW-11 (400-192721-28), BA16110 MW-12 (400-192721-29), BA16111 MW-19H (400-192721-30), BA16112 FB-2 (400-192721-31), (LCS 160-481471/1-A) and (MB 160-481471/23-A)

Method 9320: Radium-228 prep batch 160-481465. 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. BA16082 PZ-1 (400-192721-1), BA16082 PZ-1 (400-192721-1[MS]), BA16082 PZ-1 (400-192721-1[MSD]), BA16083 PZ-2 (400-192721-2), BA16084 PZ-5 (400-192721-3), BA16085 PZ-6 (400-192721-4), BA16086 MW-5 (400-192721-5), BA16087 FB-3 (400-192721-6), BA16088 MW-2VA (400-192721-7), BA16089 MW-2 (400-192721-8), BA16090 MW-3 (400-192721-9), BA16091 MW-3 DUP (400-192721-10), BA16092 MW-4 (400-192721-11), BA16093 MW-4V (400-192721-12), BA16094 MW-20H (400-192721-13), BA16095 MW-6 (400-192721-14), BA16096 MW-10 (400-192721-15), BA16097 EB-1 (400-192721-16), BA16098 MW-17 (400-192721-17), BA16099 MW-16 (400-192721-18), (LCS 160-481465/1-A) and (MB 160-481465/24-A)

Method PrecSep_0: Radium 228 Prep Batch 160-481465. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA16082 PZ-1 (400-192721-1), BA16082 PZ-1 (400-192721-1[MS]), BA16082 PZ-1 (400-192721-1[MSD]), BA16083 PZ-2 (400-192721-2), BA16084 PZ-5 (400-192721-3), BA16085 PZ-6 (400-192721-4), BA16086 MW-5 (400-192721-5), BA16087 FB-3 (400-192721-6), BA16088 MW-2VA (400-192721-7), BA16089 MW-2 (400-192721-8), BA16090 MW-3 (400-192721-9), BA16091 MW-3 DUP (400-192721-10), BA16092 MW-4 (400-192721-11), BA16093 MW-4V (400-192721-12), BA16094 MW-20H (400-192721-13), BA16095 MW-6 (400-192721-14), BA16096 MW-10 (400-192721-15), BA16097 EB-1 (400-192721-16), BA16098 MW-17 (400-192721-17) and BA16099 MW-16 (400-192721-18).

Method PrecSep_0: Radium 228 Prep Batch 160-481271. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA16100 MW-16 DUP (400-192721-19), BA16101 MW-14 (400-192721-20), BA16101 MW-14 (400-192721-20[MS]), BA16101 MW-14 (400-192721-20[MSD]), BA16102 MW-1 (400-192721-21), BA16103 MW-18H (400-192721-22), BA16104 FB-1 (400-192721-23), BA16105 MW-7 (400-192721-24), BA16106 MW-7 DUP (400-192721-25), BA16107 MW-8 (400-192721-26), BA16108 MW-9 (400-192721-27), BA16109 MW-11 (400-192721-28), BA16110 MW-12 (400-192721-29), BA16111

Job ID: 400-192721-1 (Continued)

Laboratory: Eurofins TestAmerica, Pensacola (Continued)

MW-19H (400-192721-30) and BA16112 FB-2 (400-192721-31).

Method PrecSep-21: Radium 226 Prep Batch 160-481462. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA16082 PZ-1 (400-192721-1), BA16082 PZ-1 (400-192721-1[MS]), BA16082 PZ-1 (400-192721-1[MSD]), BA16083 PZ-2 (400-192721-2), BA16084 PZ-5 (400-192721-3), BA16085 PZ-6 (400-192721-4), BA16086 MW-5 (400-192721-5), BA16087 FB-3 (400-192721-6), BA16088 MW-2VA (400-192721-7), BA16089 MW-2 (400-192721-8), BA16090 MW-3 (400-192721-9), BA16091 MW-3 DUP (400-192721-10), BA16092 MW-4 (400-192721-11), BA16093 MW-4V (400-192721-12), BA16094 MW-20H (400-192721-13), BA16095 MW-6 (400-192721-14), BA16096 MW-10 (400-192721-15), BA16097 EB-1 (400-192721-16), BA16098 MW-17 (400-192721-17) and BA16099 MW-16 (400-192721-18).

Method PrecSep-21: Radium 226 Prep Batch 160-481469. The following samples were prepared at a reduced aliquot to insure sufficient volume remains if needed for analysis: BA16100 MW-16 DUP (400-192721-19), BA16101 MW-14 (400-192721-20), BA16101 MW-14 (400-192721-20[MS]), BA16101 MW-14 (400-192721-20[MSD]), BA16102 MW-1 (400-192721-21), BA16103 MW-18H (400-192721-22), BA16104 FB-1 (400-192721-23), BA16105 MW-7 (400-192721-24), BA16106 MW-7 DUP (400-192721-25), BA16107 MW-8 (400-192721-26), BA16108 MW-9 (400-192721-27), BA16109 MW-11 (400-192721-28), BA16110 MW-12 (400-192721-29), BA16111 MW-19H (400-192721-30) and BA16112 FB-2 (400-192721-31).

Method Summary

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

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 Gadsden

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-192721-1	BA16082 PZ-1	Water	08/24/20 10:50	08/31/20 11:35	
400-192721-2	BA16083 PZ-2	Water	08/24/20 12:24	08/31/20 11:35	
400-192721-3	BA16084 PZ-5	Water	08/24/20 13:38	08/31/20 11:35	
400-192721-4	BA16085 PZ-6	Water	08/24/20 14:37	08/31/20 11:35	
400-192721-5	BA16086 MW-5	Water	08/24/20 15:47	08/31/20 11:35	
400-192721-6	BA16087 FB-3	Water	08/24/20 16:05	08/31/20 11:35	
400-192721-7	BA16088 MW-2VA	Water	08/25/20 11:50	08/31/20 11:35	
400-192721-8	BA16089 MW-2	Water	08/25/20 13:24	08/31/20 11:35	
400-192721-9	BA16090 MW-3	Water	08/26/20 08:29	08/31/20 11:35	
400-192721-10	BA16091 MW-3 DUP	Water	08/26/20 08:29	08/31/20 11:35	
400-192721-11	BA16092 MW-4	Water	08/26/20 09:31	08/31/20 11:35	
400-192721-12	BA16093 MW-4V	Water	08/26/20 11:14	08/31/20 11:35	
400-192721-13	BA16094 MW-20H	Water	08/26/20 12:11	08/31/20 11:35	
400-192721-14	BA16095 MW-6	Water	08/26/20 13:01	08/31/20 11:35	
400-192721-15	BA16096 MW-10	Water	08/26/20 14:22	08/31/20 11:35	
400-192721-16	BA16097 EB-1	Water	08/26/20 14:45	08/31/20 11:35	
400-192721-17	BA16098 MW-17	Water	08/24/20 14:45	08/31/20 11:35	
400-192721-18	BA16099 MW-16	Water	08/25/20 08:15	08/31/20 11:35	
400-192721-19	BA16100 MW-16 DUP	Water	08/25/20 08:15	08/31/20 11:35	
400-192721-20	BA16101 MW-14	Water	08/25/20 09:38	08/31/20 11:35	
400-192721-21	BA16102 MW-1	Water	08/25/20 11:30	08/31/20 11:35	
400-192721-22	BA16103 MW-18H	Water	08/25/20 12:25	08/31/20 11:35	
400-192721-23	BA16104 FB-1	Water	08/25/20 14:15	08/31/20 11:35	
400-192721-24	BA16105 MW-7	Water	08/26/20 08:48	08/31/20 11:35	
400-192721-25	BA16106 MW-7 DUP	Water	08/26/20 08:48	08/31/20 11:35	
400-192721-26	BA16107 MW-8	Water	08/26/20 10:10	08/31/20 11:35	
400-192721-27	BA16108 MW-9	Water	08/26/20 11:03	08/31/20 11:35	
400-192721-28	BA16109 MW-11	Water	08/26/20 12:25	08/31/20 11:35	
400-192721-29	BA16110 MW-12	Water	08/26/20 13:17	08/31/20 11:35	
400-192721-30	BA16111 MW-19H	Water	08/26/20 14:10	08/31/20 11:35	
400-192721-31	BA16112 FB-2	Water	08/26/20 14:40	08/31/20 11:35	

Client Sample ID: BA16082 PZ-1

Date Collected: 08/24/20 10:50
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-1

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	0.0158	U	0.134	0.134	1.00	0.279	pCi/L	09/02/20 15:20	09/26/20 10:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*09/02/20 15:20*	*09/26/20 10:47*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.162	U	0.360	0.361	1.00	0.618	pCi/L	09/02/20 15:52	09/25/20 12:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*1*
Y Carrier	*78.1*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*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	0.177	U	0.384	0.385	5.00	0.618	pCi/L		09/29/20 20:33	1

Client Sample Results

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

Client Sample ID: BA16083 PZ-2

Date Collected: 08/24/20 12:24
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-2

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	0.0738	U	0.138	0.138	1.00	0.249	pCi/L	09/02/20 15:20	09/26/20 10:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*40 - 110*	*09/02/20 15:20*	*09/26/20 10:47*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0769	U	0.331	0.331	1.00	0.608	pCi/L	09/02/20 15:52	09/25/20 12:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*1*
Y Carrier	*74.8*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*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	-0.00312	U	0.359	0.359	5.00	0.608	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16084 PZ-5

Date Collected: 08/24/20 13:38
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-3

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	0.274	U	0.206	0.208	1.00	0.285	pCi/L	09/02/20 15:20	09/26/20 10:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*09/02/20 15:20*	*09/26/20 10:47*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.180	U	0.403	0.404	1.00	0.692	pCi/L	09/02/20 15:52	09/25/20 12:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.1*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*1*
Y Carrier	*74.8*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*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	0.454	U	0.453	0.454	5.00	0.692	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16085 PZ-6

Date Collected: 08/24/20 14:37
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-4

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	0.166	U	0.191	0.191	1.00	0.309	pCi/L	09/02/20 15:20	09/26/20 10:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*40 - 110*	*09/02/20 15:20*	*09/26/20 10:47*	*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	0.392	0.392	1.00	0.660	pCi/L	09/02/20 15:52	09/25/20 12:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*1*
Y Carrier	*74.8*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*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	0.404	U	0.436	0.436	5.00	0.660	pCi/L		09/29/20 20:33	1

Client Sample Results

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

Client Sample ID: BA16086 MW-5

Date Collected: 08/24/20 15:47
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-5

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	0.265	U	0.214	0.215	1.00	0.310	pCi/L	09/02/20 15:20	09/26/20 10:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*09/02/20 15:20*	*09/26/20 10:47*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.217	U	0.337	0.338	1.00	0.569	pCi/L	09/02/20 15:52	09/25/20 12:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*1*
Y Carrier	*77.0*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*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	0.482	U	0.399	0.401	5.00	0.569	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16087 FB-3

Date Collected: 08/24/20 16:05
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-6

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	0.0181	U	0.142	0.142	1.00	0.292	pCi/L	09/02/20 15:20	09/26/20 10:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*40 - 110*	*09/02/20 15:20*	*09/26/20 10:47*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.178	U	0.362	0.363	1.00	0.679	pCi/L	09/02/20 15:52	09/25/20 12:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.2*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*1*
Y Carrier	*75.9*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:25*	*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	-0.160	U	0.389	0.390	5.00	0.679	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16088 MW-2VA

Date Collected: 08/25/20 11:50
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-7

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	0.0318	U	0.117	0.117	1.00	0.235	pCi/L	09/02/20 15:20	09/26/20 12:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:34*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.775**		0.415	0.421	1.00	0.620	pCi/L	09/02/20 15:52	09/25/20 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.7*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:26*	*1*
Y Carrier	*77.4*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:26*	*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	**0.807**		0.431	0.437	5.00	0.620	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16089 MW-2

Date Collected: 08/25/20 13:24
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-8

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	0.116	U	0.155	0.155	1.00	0.258	pCi/L	09/02/20 15:20	09/26/20 12:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:34*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.313	U	0.338	0.339	1.00	0.553	pCi/L	09/02/20 15:52	09/25/20 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:26*	*1*
Y Carrier	*76.6*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:26*	*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	0.430	U	0.372	0.373	5.00	0.553	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16090 MW-3

Date Collected: 08/26/20 08:29
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-9

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	0.0976	U	0.148	0.148	1.00	0.255	pCi/L	09/02/20 15:20	09/26/20 12:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:34*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0791	U	0.360	0.360	1.00	0.632	pCi/L	09/02/20 15:52	09/25/20 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:26*	*1*
Y Carrier	*78.1*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:26*	*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	0.177	U	0.389	0.389	5.00	0.632	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16091 MW-3 DUP

Date Collected: 08/26/20 08:29
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-10

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	0.0467	U	0.197	0.197	1.00	0.373	pCi/L	09/02/20 15:20	09/26/20 12:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:34*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.454	U	0.406	0.408	1.00	0.654	pCi/L	09/02/20 15:52	09/25/20 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.5*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:26*	*1*
Y Carrier	*82.6*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:26*	*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	U	0.451	0.453	5.00	0.654	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16092 MW-4

Date Collected: 08/26/20 09:31
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-11

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	0.0475	U	0.149	0.149	1.00	0.286	pCi/L	09/02/20 15:20	09/26/20 12:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:34*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.213	U	0.366	0.366	1.00	0.619	pCi/L	09/02/20 15:52	09/25/20 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*1*
Y Carrier	*79.6*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*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	0.260	U	0.395	0.395	5.00	0.619	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16093 MW-4V

Date Collected: 08/26/20 11:14
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-12

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	**0.278**		0.196	0.197	1.00	0.266	pCi/L	09/02/20 15:20	09/26/20 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.8*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.561	U	0.367	0.370	1.00	0.566	pCi/L	09/02/20 15:52	09/25/20 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.8*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*1*
Y Carrier	*83.7*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*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	**0.839**		0.416	0.419	5.00	0.566	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16094 MW-20H

Date Collected: 08/26/20 12:11
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-13

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	0.258	U	0.192	0.193	1.00	0.261	pCi/L	09/02/20 15:20	09/26/20 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.155	U	0.376	0.376	1.00	0.646	pCi/L	09/02/20 15:52	09/25/20 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*1*
Y Carrier	*83.0*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*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	0.413	U	0.422	0.423	5.00	0.646	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16095 MW-6

Date Collected: 08/26/20 13:01
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-14

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	0.206	U	0.181	0.182	1.00	0.264	pCi/L	09/02/20 15:20	09/26/20 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.211	U	0.368	0.368	1.00	0.623	pCi/L	09/02/20 15:52	09/25/20 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.3*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*1*
Y Carrier	*84.1*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*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	0.416	U	0.410	0.411	5.00	0.623	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16096 MW-10

Date Collected: 08/26/20 14:22
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-15

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	0.0991	U	0.150	0.151	1.00	0.260	pCi/L	09/02/20 15:20	09/26/20 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.122	U	0.355	0.355	1.00	0.614	pCi/L	09/02/20 15:52	09/25/20 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*1*
Y Carrier	*79.3*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*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	0.221	U	0.385	0.386	5.00	0.614	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16097 EB-1

Date Collected: 08/26/20 14:45
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-16

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	0.104	U	0.149	0.149	1.00	0.253	pCi/L	09/02/20 15:20	09/26/20 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.6*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.372	U	0.336	0.338	1.00	0.540	pCi/L	09/02/20 15:52	09/25/20 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.6*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*1*
Y Carrier	*83.0*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*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	0.476	U	0.368	0.369	5.00	0.540	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16098 MW-17

Date Collected: 08/24/20 14:45
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-17

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	0.246	U	0.190	0.191	1.00	0.264	pCi/L	09/02/20 15:20	09/26/20 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.157	U	0.384	0.385	1.00	0.659	pCi/L	09/02/20 15:52	09/25/20 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*1*
Y Carrier	*84.1*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*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	0.404	U	0.428	0.430	5.00	0.659	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16099 MW-16

Date Collected: 08/25/20 08:15
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-18

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	**0.304**		0.205	0.207	1.00	0.266	pCi/L	09/02/20 15:20	09/26/20 12:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:35*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.546	U	0.376	0.379	1.00	0.583	pCi/L	09/02/20 15:52	09/25/20 12:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*1*
Y Carrier	*84.9*		*40 - 110*	*09/02/20 15:52*	*09/25/20 12:29*	*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	**0.851**		0.428	0.432	5.00	0.583	pCi/L		09/29/20 20:33	1

Client Sample ID: BA16100 MW-16 DUP

Date Collected: 08/25/20 08:15
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-19

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	**0.389**		0.236	0.239	1.00	0.286	pCi/L	09/02/20 18:46	09/25/20 09:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.0*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.278	U	0.339	0.340	1.00	0.560	pCi/L	09/02/20 19:11	09/24/20 11:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.0*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:21*	*1*
Y Carrier	*85.2*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:21*	*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	**0.667**		0.413	0.416	5.00	0.560	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16101 MW-14

Date Collected: 08/25/20 09:38
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-20

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	0.186	U	0.260	0.261	1.00	0.440	pCi/L	09/02/20 18:46	09/25/20 09:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.2*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:25*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.790**		0.469	0.475	1.00	0.712	pCi/L	09/02/20 19:11	09/24/20 11:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.2*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:21*	*1*
Y Carrier	*77.4*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:21*	*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	**0.976**		0.536	0.542	5.00	0.712	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16102 MW-1

Date Collected: 08/25/20 11:30
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-21

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	0.0372	U	0.137	0.137	1.00	0.273	pCi/L	09/02/20 18:46	09/25/20 09:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.5*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.465	U	0.415	0.417	1.00	0.665	pCi/L	09/02/20 19:11	09/24/20 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.5*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*1*
Y Carrier	*75.9*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*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	0.502	U	0.437	0.439	5.00	0.665	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16103 MW-18H

Date Collected: 08/25/20 12:25
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-22

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	0.302	U	0.231	0.233	1.00	0.319	pCi/L	09/02/20 18:46	09/25/20 09:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.3*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:26*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.15**		0.554	0.564	1.00	0.813	pCi/L	09/02/20 19:11	09/24/20 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*71.3*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*1*
Y Carrier	*76.3*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*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	**1.45**		0.600	0.610	5.00	0.813	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16104 FB-1

Date Collected: 08/25/20 14:15
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-23

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	0.0890	U	0.165	0.165	1.00	0.297	pCi/L	09/02/20 18:46	09/25/20 09:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:27*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.651	U	0.425	0.429	1.00	0.652	pCi/L	09/02/20 19:11	09/24/20 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.6*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*1*
Y Carrier	*75.9*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*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	**0.740**		0.456	0.460	5.00	0.652	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16105 MW-7

Date Collected: 08/26/20 08:48
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-24

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	0.140	U	0.173	0.173	1.00	0.283	pCi/L	09/02/20 18:46	09/25/20 09:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:27*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.551	U	0.451	0.454	1.00	0.720	pCi/L	09/02/20 19:11	09/24/20 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*1*
Y Carrier	*80.0*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*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	0.691	U	0.483	0.486	5.00	0.720	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16106 MW-7 DUP

Date Collected: 08/26/20 08:48
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-25

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	0.0308	U	0.151	0.152	1.00	0.308	pCi/L	09/02/20 18:46	09/25/20 09:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.1*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:27*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0471	U	0.366	0.366	1.00	0.669	pCi/L	09/02/20 19:11	09/24/20 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.1*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*1*
Y Carrier	*79.3*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*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	-0.0163	U	0.396	0.396	5.00	0.669	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16107 MW-8

Date Collected: 08/26/20 10:10
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-26

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	0.0524	U	0.187	0.187	1.00	0.359	pCi/L	09/02/20 18:46	09/25/20 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.3*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:28*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.287	U	0.361	0.362	1.00	0.598	pCi/L	09/02/20 19:11	09/24/20 11:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.3*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*1*
Y Carrier	*81.1*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:22*	*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	0.339	U	0.407	0.407	5.00	0.598	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16108 MW-9

Date Collected: 08/26/20 11:03
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-27

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	0.139	U	0.205	0.205	1.00	0.351	pCi/L	09/02/20 18:46	09/25/20 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.3*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:28*	*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**		0.519	0.527	1.00	0.779	pCi/L	09/02/20 19:11	09/24/20 11:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.3*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*1*
Y Carrier	*81.9*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*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**		0.558	0.565	5.00	0.779	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16109 MW-11

Date Collected: 08/26/20 12:25
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-28

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	0.287	U	0.232	0.233	1.00	0.336	pCi/L	09/02/20 18:46	09/25/20 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.3*		*40 - 110*	*09/02/20 18:46*	*09/25/20 09:28*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.997**		0.507	0.515	1.00	0.756	pCi/L	09/02/20 19:11	09/24/20 11:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.3*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*1*
Y Carrier	*75.5*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*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	**1.28**		0.558	0.565	5.00	0.756	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16110 MW-12

Date Collected: 08/26/20 13:17
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-29

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	0.275		0.200	0.202	1.00	0.265	pCi/L	09/02/20 18:46	09/25/20 14:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.4*		*40 - 110*	*09/02/20 18:46*	*09/25/20 14:22*	*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		0.555	0.563	1.00	0.840	pCi/L	09/02/20 19:11	09/24/20 11:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.4*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*1*
Y Carrier	*76.6*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*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	1.31		0.590	0.598	5.00	0.840	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16111 MW-19H

Date Collected: 08/26/20 14:10
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-30

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	0.338		0.215	0.217	1.00	0.266	pCi/L	09/02/20 18:46	09/25/20 14:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.2*		*40 - 110*	*09/02/20 18:46*	*09/25/20 14:22*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0735	U	0.442	0.442	1.00	0.799	pCi/L	09/02/20 19:11	09/24/20 11:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.2*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*1*
Y Carrier	*76.3*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*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	0.265	U	0.492	0.492	5.00	0.799	pCi/L		09/29/20 20:32	1

Client Sample ID: BA16112 FB-2

Date Collected: 08/26/20 14:40
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-31

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	-0.0730	U	0.192	0.192	1.00	0.422	pCi/L	09/02/20 18:46	09/25/20 14:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.4*		*40 - 110*	*09/02/20 18:46*	*09/25/20 14:22*	*1*

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.149	U	0.482	0.482	1.00	0.839	pCi/L	09/02/20 19:11	09/24/20 11:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.4*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*1*
Y Carrier	*71.4*		*40 - 110*	*09/02/20 19:11*	*09/24/20 11:27*	*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	0.0763	U	0.519	0.519	5.00	0.839	pCi/L		09/29/20 20:32	1

Definitions/Glossary

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Lab Chronicle

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

Client Sample ID: BA16082 PZ-1
Date Collected: 08/24/20 10:50
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 10:47	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:25	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16083 PZ-2
Date Collected: 08/24/20 12:24
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 10:47	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:25	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16084 PZ-5
Date Collected: 08/24/20 13:38
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 10:47	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:25	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16085 PZ-6
Date Collected: 08/24/20 14:37
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 10:47	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:25	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Lab Chronicle

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

Client Sample ID: BA16086 MW-5
Date Collected: 08/24/20 15:47
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 10:47	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:25	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16087 FB-3
Date Collected: 08/24/20 16:05
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 10:47	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:25	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16088 MW-2VA
Date Collected: 08/25/20 11:50
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:34	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:26	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16089 MW-2
Date Collected: 08/25/20 13:24
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:34	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:26	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16090 MW-3

Lab Sample ID: 400-192721-9

Date Collected: 08/26/20 08:29

Matrix: Water

Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:34	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:26	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16091 MW-3 DUP

Lab Sample ID: 400-192721-10

Date Collected: 08/26/20 08:29

Matrix: Water

Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:34	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483662	09/25/20 12:26	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16092 MW-4

Lab Sample ID: 400-192721-11

Date Collected: 08/26/20 09:31

Matrix: Water

Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:34	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483663	09/25/20 12:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16093 MW-4V

Lab Sample ID: 400-192721-12

Date Collected: 08/26/20 11:14

Matrix: Water

Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:35	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483663	09/25/20 12:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16094 MW-20H

Lab Sample ID: 400-192721-13

Date Collected: 08/26/20 12:11

Matrix: Water

Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:35	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483663	09/25/20 12:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16095 MW-6

Lab Sample ID: 400-192721-14

Date Collected: 08/26/20 13:01

Matrix: Water

Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:35	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483663	09/25/20 12:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16096 MW-10

Lab Sample ID: 400-192721-15

Date Collected: 08/26/20 14:22

Matrix: Water

Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:35	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483663	09/25/20 12:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16097 EB-1

Lab Sample ID: 400-192721-16

Date Collected: 08/26/20 14:45

Matrix: Water

Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:35	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483663	09/25/20 12:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Lab Chronicle

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

Client Sample ID: BA16098 MW-17
Date Collected: 08/24/20 14:45
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:35	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483663	09/25/20 12:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16099 MW-16
Date Collected: 08/25/20 08:15
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481462	09/02/20 15:20	AVB	TAL SL
Total/NA	Analysis	9315		1	483907	09/26/20 12:35	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481465	09/02/20 15:52	AVB	TAL SL
Total/NA	Analysis	9320		1	483663	09/25/20 12:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484266	09/29/20 20:33	GRW	TAL SL

Client Sample ID: BA16100 MW-16 DUP
Date Collected: 08/25/20 08:15
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:25	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483512	09/24/20 11:21	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Client Sample ID: BA16101 MW-14
Date Collected: 08/25/20 09:38
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:25	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483512	09/24/20 11:21	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Lab Chronicle

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

Client Sample ID: BA16102 MW-1
Date Collected: 08/25/20 11:30
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:26	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483512	09/24/20 11:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Client Sample ID: BA16103 MW-18H
Date Collected: 08/25/20 12:25
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:26	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483512	09/24/20 11:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Client Sample ID: BA16104 FB-1
Date Collected: 08/25/20 14:15
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:27	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483512	09/24/20 11:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Client Sample ID: BA16105 MW-7
Date Collected: 08/26/20 08:48
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:27	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483512	09/24/20 11:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Lab Chronicle

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

Client Sample ID: BA16106 MW-7 DUP

Date Collected: 08/26/20 08:48
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:27	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483512	09/24/20 11:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Client Sample ID: BA16107 MW-8

Date Collected: 08/26/20 10:10
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:28	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483512	09/24/20 11:22	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Client Sample ID: BA16108 MW-9

Date Collected: 08/26/20 11:03
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:28	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483516	09/24/20 11:27	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Client Sample ID: BA16109 MW-11

Date Collected: 08/26/20 12:25
Date Received: 08/31/20 11:35

Lab Sample ID: 400-192721-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 09:28	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483516	09/24/20 11:27	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Lab Chronicle

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

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

Client Sample ID: BA16110 MW-12

Lab Sample ID: 400-192721-29

Date Collected: 08/26/20 13:17
Matrix: Water
Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 14:22	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483516	09/24/20 11:27	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Client Sample ID: BA16111 MW-19H

Lab Sample ID: 400-192721-30

Date Collected: 08/26/20 14:10
Matrix: Water
Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 14:22	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483516	09/24/20 11:27	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Client Sample ID: BA16112 FB-2

Lab Sample ID: 400-192721-31

Date Collected: 08/26/20 14:40
Matrix: Water
Date Received: 08/31/20 11:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			481469	09/02/20 18:46	AVB	TAL SL
Total/NA	Analysis	9315		1	483637	09/25/20 14:22	SCB	TAL SL
Total/NA	Prep	PrecSep_0			481471	09/02/20 19:11	AVB	TAL SL
Total/NA	Analysis	9320		1	483516	09/24/20 11:27	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	484265	09/29/20 20:32	GRW	TAL SL

Laboratory References:

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

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Prep Batch: 481462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192721-1	BA16082 PZ-1	Total/NA	Water	PrecSep-21	
400-192721-2	BA16083 PZ-2	Total/NA	Water	PrecSep-21	
400-192721-3	BA16084 PZ-5	Total/NA	Water	PrecSep-21	
400-192721-4	BA16085 PZ-6	Total/NA	Water	PrecSep-21	
400-192721-5	BA16086 MW-5	Total/NA	Water	PrecSep-21	
400-192721-6	BA16087 FB-3	Total/NA	Water	PrecSep-21	
400-192721-7	BA16088 MW-2VA	Total/NA	Water	PrecSep-21	
400-192721-8	BA16089 MW-2	Total/NA	Water	PrecSep-21	
400-192721-9	BA16090 MW-3	Total/NA	Water	PrecSep-21	
400-192721-10	BA16091 MW-3 DUP	Total/NA	Water	PrecSep-21	
400-192721-11	BA16092 MW-4	Total/NA	Water	PrecSep-21	
400-192721-12	BA16093 MW-4V	Total/NA	Water	PrecSep-21	
400-192721-13	BA16094 MW-20H	Total/NA	Water	PrecSep-21	
400-192721-14	BA16095 MW-6	Total/NA	Water	PrecSep-21	
400-192721-15	BA16096 MW-10	Total/NA	Water	PrecSep-21	
400-192721-16	BA16097 EB-1	Total/NA	Water	PrecSep-21	
400-192721-17	BA16098 MW-17	Total/NA	Water	PrecSep-21	
400-192721-18	BA16099 MW-16	Total/NA	Water	PrecSep-21	
MB 160-481462/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-481462/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-192721-1 MS	BA16082 PZ-1	Total/NA	Water	PrecSep-21	
400-192721-1 MSD	BA16082 PZ-1	Total/NA	Water	PrecSep-21	

Prep Batch: 481465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192721-1	BA16082 PZ-1	Total/NA	Water	PrecSep_0	
400-192721-2	BA16083 PZ-2	Total/NA	Water	PrecSep_0	
400-192721-3	BA16084 PZ-5	Total/NA	Water	PrecSep_0	
400-192721-4	BA16085 PZ-6	Total/NA	Water	PrecSep_0	
400-192721-5	BA16086 MW-5	Total/NA	Water	PrecSep_0	
400-192721-6	BA16087 FB-3	Total/NA	Water	PrecSep_0	
400-192721-7	BA16088 MW-2VA	Total/NA	Water	PrecSep_0	
400-192721-8	BA16089 MW-2	Total/NA	Water	PrecSep_0	
400-192721-9	BA16090 MW-3	Total/NA	Water	PrecSep_0	
400-192721-10	BA16091 MW-3 DUP	Total/NA	Water	PrecSep_0	
400-192721-11	BA16092 MW-4	Total/NA	Water	PrecSep_0	
400-192721-12	BA16093 MW-4V	Total/NA	Water	PrecSep_0	
400-192721-13	BA16094 MW-20H	Total/NA	Water	PrecSep_0	
400-192721-14	BA16095 MW-6	Total/NA	Water	PrecSep_0	
400-192721-15	BA16096 MW-10	Total/NA	Water	PrecSep_0	
400-192721-16	BA16097 EB-1	Total/NA	Water	PrecSep_0	
400-192721-17	BA16098 MW-17	Total/NA	Water	PrecSep_0	
400-192721-18	BA16099 MW-16	Total/NA	Water	PrecSep_0	
MB 160-481465/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-481465/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-192721-1 MS	BA16082 PZ-1	Total/NA	Water	PrecSep_0	
400-192721-1 MSD	BA16082 PZ-1	Total/NA	Water	PrecSep_0	

Prep Batch: 481469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192721-19	BA16100 MW-16 DUP	Total/NA	Water	PrecSep-21	

Rad (Continued)

Prep Batch: 481469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192721-20	BA16101 MW-14	Total/NA	Water	PrecSep-21	
400-192721-21	BA16102 MW-1	Total/NA	Water	PrecSep-21	
400-192721-22	BA16103 MW-18H	Total/NA	Water	PrecSep-21	
400-192721-23	BA16104 FB-1	Total/NA	Water	PrecSep-21	
400-192721-24	BA16105 MW-7	Total/NA	Water	PrecSep-21	
400-192721-25	BA16106 MW-7 DUP	Total/NA	Water	PrecSep-21	
400-192721-26	BA16107 MW-8	Total/NA	Water	PrecSep-21	
400-192721-27	BA16108 MW-9	Total/NA	Water	PrecSep-21	
400-192721-28	BA16109 MW-11	Total/NA	Water	PrecSep-21	
400-192721-29	BA16110 MW-12	Total/NA	Water	PrecSep-21	
400-192721-30	BA16111 MW-19H	Total/NA	Water	PrecSep-21	
400-192721-31	BA16112 FB-2	Total/NA	Water	PrecSep-21	
MB 160-481469/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-481469/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
400-192721-20 MS	BA16101 MW-14	Total/NA	Water	PrecSep-21	
400-192721-20 MSD	BA16101 MW-14	Total/NA	Water	PrecSep-21	

Prep Batch: 481471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-192721-19	BA16100 MW-16 DUP	Total/NA	Water	PrecSep_0	
400-192721-20	BA16101 MW-14	Total/NA	Water	PrecSep_0	
400-192721-21	BA16102 MW-1	Total/NA	Water	PrecSep_0	
400-192721-22	BA16103 MW-18H	Total/NA	Water	PrecSep_0	
400-192721-23	BA16104 FB-1	Total/NA	Water	PrecSep_0	
400-192721-24	BA16105 MW-7	Total/NA	Water	PrecSep_0	
400-192721-25	BA16106 MW-7 DUP	Total/NA	Water	PrecSep_0	
400-192721-26	BA16107 MW-8	Total/NA	Water	PrecSep_0	
400-192721-27	BA16108 MW-9	Total/NA	Water	PrecSep_0	
400-192721-28	BA16109 MW-11	Total/NA	Water	PrecSep_0	
400-192721-29	BA16110 MW-12	Total/NA	Water	PrecSep_0	
400-192721-30	BA16111 MW-19H	Total/NA	Water	PrecSep_0	
400-192721-31	BA16112 FB-2	Total/NA	Water	PrecSep_0	
MB 160-481471/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-481471/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
400-192721-20 MS	BA16101 MW-14	Total/NA	Water	PrecSep_0	
400-192721-20 MSD	BA16101 MW-14	Total/NA	Water	PrecSep_0	

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-481462/24-A
Matrix: Water
Analysis Batch: 483907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481462

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03885	U	0.135	0.135	1.00	0.265	pCi/L	09/02/20 15:20	09/26/20 12:35	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*40 - 110*	*09/02/20 15:20*	*09/26/20 12:35*	*1*

Lab Sample ID: LCS 160-481462/1-A
Matrix: Water
Analysis Batch: 483907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481462

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	13.55		1.64	1.00	0.285	pCi/L	90	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.2*		*40 - 110*

Lab Sample ID: 400-192721-1 MS
Matrix: Water
Analysis Batch: 483907

Client Sample ID: BA16082 PZ-1
Prep Type: Total/NA
Prep Batch: 481462

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.0158	U	15.1	12.94		1.61	1.00	0.284	pCi/L	85	75 - 138		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*84.1*		*40 - 110*

Lab Sample ID: 400-192721-1 MSD
Matrix: Water
Analysis Batch: 483907

Client Sample ID: BA16082 PZ-1
Prep Type: Total/NA
Prep Batch: 481462

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.0158	U	15.1	14.10		1.73	1.00	0.290	pCi/L	93	75 - 138	0.35	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*81.7*		*40 - 110*

Lab Sample ID: MB 160-481469/23-A
Matrix: Water
Analysis Batch: 483637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481469

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.004751	U	0.132	0.132	1.00	0.285	pCi/L	09/02/20 18:46	09/25/20 14:23	1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-481469/23-A
Matrix: Water
Analysis Batch: 483637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481469

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110	09/02/20 18:46	09/25/20 14:23	1

Lab Sample ID: LCS 160-481469/1-A
Matrix: Water
Analysis Batch: 483637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481469

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			15.1	15.33		1.81	1.00	0.248	pCi/L	101	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.9		40 - 110

Lab Sample ID: 400-192721-20 MS
Matrix: Water
Analysis Batch: 483637

Client Sample ID: BA16101 MW-14
Prep Type: Total/NA
Prep Batch: 481469

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	0.186	U	15.1	15.23		1.85	1.00	0.327	pCi/L	99	75 - 138		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	79.5		40 - 110

Lab Sample ID: 400-192721-20 MSD
Matrix: Water
Analysis Batch: 483637

Client Sample ID: BA16101 MW-14
Prep Type: Total/NA
Prep Batch: 481469

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	0.186	U	15.1	14.18		1.72	1.00	0.301	pCi/L	93	75 - 138	0.29	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	85.6		40 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-481465/24-A
Matrix: Water
Analysis Batch: 483663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481465

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4555	U	0.339	0.342	1.00	0.530	pCi/L	09/02/20 15:52	09/25/20 12:29	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		40 - 110	09/02/20 15:52	09/25/20 12:29	1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-481465/24-A
Matrix: Water
Analysis Batch: 483663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481465

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	83.0		40 - 110	09/02/20 15:52	09/25/20 12:29	1

Lab Sample ID: LCS 160-481465/1-A
Matrix: Water
Analysis Batch: 483662

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481465

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			10.4	10.41		1.30	1.00	0.621	pCi/L	100	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.2		40 - 110
Y Carrier	82.6		40 - 110

Lab Sample ID: 400-192721-1 MS
Matrix: Water
Analysis Batch: 483662

Client Sample ID: BA16082 PZ-1
Prep Type: Total/NA
Prep Batch: 481465

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.162	U	10.4	11.49		1.47	1.00	0.672	pCi/L	109	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	84.1		40 - 110
Y Carrier	71.8		40 - 110

Lab Sample ID: 400-192721-1 MSD
Matrix: Water
Analysis Batch: 483662

Client Sample ID: BA16082 PZ-1
Prep Type: Total/NA
Prep Batch: 481465

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.162	U	10.4	10.40		1.36	1.00	0.673	pCi/L	99	45 - 150	0.39	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	81.7		40 - 110
Y Carrier	76.6		40 - 110

Lab Sample ID: MB 160-481471/23-A
Matrix: Water
Analysis Batch: 483509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481471

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4063	U	0.395	0.396	1.00	0.639	pCi/L	09/02/20 19:11	09/24/20 11:30	1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-481471/23-A
Matrix: Water
Analysis Batch: 483509

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481471

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110	09/02/20 19:11	09/24/20 11:30	1
Y Carrier	84.5		40 - 110	09/02/20 19:11	09/24/20 11:30	1

Lab Sample ID: LCS 160-481471/1-A
Matrix: Water
Analysis Batch: 483512

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481471

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			10.4	11.08		1.39	1.00	0.684	pCi/L	107	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.9		40 - 110
Y Carrier	77.8		40 - 110

Lab Sample ID: 400-192721-20 MS
Matrix: Water
Analysis Batch: 483512

Client Sample ID: BA16101 MW-14
Prep Type: Total/NA
Prep Batch: 481471

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228	0.790		10.4	12.00		1.51	1.00	0.654	pCi/L	108	45 - 150		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	79.5		40 - 110
Y Carrier	78.9		40 - 110

Lab Sample ID: 400-192721-20 MSD
Matrix: Water
Analysis Batch: 483512

Client Sample ID: BA16101 MW-14
Prep Type: Total/NA
Prep Batch: 481471

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	0.790		10.4	11.51		1.44	1.00	0.610	pCi/L	103	45 - 150	0.17	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	85.6		40 - 110
Y Carrier	76.6		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 (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 2
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: Gadsden Ash Pond 1295	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:

400-192721 COC

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_Ra228, Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
BA16082	8/24/20	10:50	G	Water						X	3	PZ-1
BA16083	8/24/20	12:24	G	Water						X	1	PZ-2
BA16084	8/24/20	13:38	G	Water						X	1	PZ-5
BA16085	8/24/20	14:37	G	Water						X	1	PZ-6
BA16086	8/24/20	15:47	G	Water						X	1	MW-5
BA16087	8/24/20	16:05	G	Water						X	1	FB-3 (Field Blank)
BA16088	8/25/20	11:50	G	Water						X	1	MW-2VA
BA16089	8/25/20	13:24	G	Water						X	1	MW-2
BA16090	8/26/20	08:29	G	Water						X	1	MW-3
BA16091	8/26/20	08:29	G	Water						X	1	MW-3 DUP (Sample Duplicate)
BA16092	8/26/20	09:31	G	Water						X	1	MW-4
BA16093	8/26/20	11:14	G	Water						X	1	MW-4V
BA16094	8/26/20	12:11	G	Water						X	1	MW-20H
BA16095	8/26/20	13:01	G	Water						X	1	MW-6
BA16096	8/26/20	14:22	G	Water						X	1	MW-10
BA16097	8/26/20	14:45	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 compliance 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:

44048

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Laura Midkiff	Date/Time: 08/27/2020 15:00	Water APC	Received by: [illegible]	Date/Time: 8.31.20 [illegible] MH	Company: 7135
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: 27.7, 28.8C IR7

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 2 of 2
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: Gadsden Ash Pond 1295	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:									
BA16098	8/24/20	14:45	G	Water						X	1	MW-17
BA16099	8/25/20	08:15	G	Water						X	1	MW-16
BA16100	8/25/20	08:15	G	Water						X	1	MW-16 DUP (Sample Duplocate)
BA16101	8/25/20	09:38	G	Water						X	3	MW-14
BA16102	8/25/20	11:30	G	Water						X	1	MW-1
BA16103	8/25/20	12:25	G	Water						X	1	MW-18H
BA16104	8/25/20	14:15	G	Water						X	1	FB-1 (Field Blank)
BA16105	8/26/20	08:48	G	Water						X	1	MW-7
BA16106	8/26/20	08:48	G	Water						X	1	MW-7 DUP (Sample Duplicate)
BA16107	8/26/20	10:10	G	Water						X	1	MW-8
BA16108	8/26/20	11:03	G	Water						X	1	MW-9
BA16109	8/26/20	12:25	G	Water						X	1	MW-11
BA16110	8/26/20	13:17	G	Water						X	1	MW-12
BA16111	8/26/20	14:10	G	Water						X	1	MW-19H
BA16112	8/26/20	14:40	G	Water						X	1	FB-2 (Field Blank)
		RSM 8/27/20										

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 compliance 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) 44048 Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: Laura Midkiff	Date/Time: 08/27/2020 15:00	Water APC	Received by: Wolfman Hunchosen	Date/Time: 8-31-20 907 MH	Company: 1135
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: 27.7C, 28.8C IR5

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Alabama Power General Test Laboratory

Job Number: 400-192721-1
SDG Number: Gadsden Ash Pond 1295

Login Number: 192721
List Number: 1
Creator: Hinrichsen, Megan E

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	Thermal preservation not required.
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	True	27.7°C, 28.8°C IR-7
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: 400-192721-1
SDG Number: Gadsden Ash Pond 1295

Login Number: 192721
List Number: 2
Creator: Boyd, Jacob C

List Source: Eurofins TestAmerica, St. Louis
List Creation: 09/01/20 03:09 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	
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").	True	
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 Gadsden

Job ID: 400-192721-1
SDG: Gadsden Ash Pond 1295

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
Alaska (UST)	State	20-001	05-06-22
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	12-08-20
California	Los Angeles County Sanitation Districts	10259	06-30-21
California	State	2886	06-30-21
Connecticut	State	PH-0241	03-31-21
Florida	NELAP	E87689	06-30-21
HI - RadChem Recognition	State	n/a	06-30-21
Illinois	NELAP	004553	11-30-20
Kansas	NELAP	E-10236	10-31-20
Kentucky (DW)	State	KY90125	12-31-20
Louisiana	NELAP	04080	07-01-21
Louisiana (DW)	State	LA011	12-31-20
Maryland	State	310	09-30-21
MI - RadChem Recognition	State	9005	06-30-21
Missouri	State	780	06-30-22
Nevada	State	MO000542020-1	07-31-21
New Jersey	NELAP	MO002	06-30-21
New York	NELAP	11616	04-01-21
North Dakota	State	R-207	06-30-21
NRC	NRC	24-24817-01	12-31-22
Oklahoma	State	9997	08-31-21
Oregon	NELAP	4157	09-01-21
Pennsylvania	NELAP	68-00540	02-28-21
Texas	NELAP	T104704193-19-13	07-31-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-17-00028	03-11-23
Utah	NELAP	MO000542019-11	07-31-21
Virginia	NELAP	10310	06-14-21
Virginia	NELAP	10310	06-14-21
Washington	State	C592	08-30-21
West Virginia DEP	State	381	10-31-21

Alabama Power Company
Plant Gadsden Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-1	8/25/2020 11:05	Conductivity	1158.46	uS/cm
APCO-GSD-AP-MW-1	8/25/2020 11:05	DO	0.22	mg/L
APCO-GSD-AP-MW-1	8/25/2020 11:05	Depth to Water Detail	14.06	ft
APCO-GSD-AP-MW-1	8/25/2020 11:05	Oxidation Reduction Potention	98.13	mv
APCO-GSD-AP-MW-1	8/25/2020 11:05	pH	6.04	pH
APCO-GSD-AP-MW-1	8/25/2020 11:05	Temperature	18.13	C
APCO-GSD-AP-MW-1	8/25/2020 11:05	Turbidity	22.8	NTU
APCO-GSD-AP-MW-1	8/25/2020 11:10	Conductivity	1141.4	uS/cm
APCO-GSD-AP-MW-1	8/25/2020 11:10	DO	0.16	mg/L
APCO-GSD-AP-MW-1	8/25/2020 11:10	Depth to Water Detail	14.06	ft
APCO-GSD-AP-MW-1	8/25/2020 11:10	Oxidation Reduction Potention	85.4	mv
APCO-GSD-AP-MW-1	8/25/2020 11:10	pH	6.04	pH
APCO-GSD-AP-MW-1	8/25/2020 11:10	Temperature	18.17	C
APCO-GSD-AP-MW-1	8/25/2020 11:10	Turbidity	16	NTU
APCO-GSD-AP-MW-1	8/25/2020 11:15	Conductivity	1128.61	uS/cm
APCO-GSD-AP-MW-1	8/25/2020 11:15	DO	0.16	mg/L
APCO-GSD-AP-MW-1	8/25/2020 11:15	Depth to Water Detail	14.06	ft
APCO-GSD-AP-MW-1	8/25/2020 11:15	Oxidation Reduction Potention	77.39	mv
APCO-GSD-AP-MW-1	8/25/2020 11:15	pH	6.03	pH
APCO-GSD-AP-MW-1	8/25/2020 11:15	Temperature	18.17	C
APCO-GSD-AP-MW-1	8/25/2020 11:15	Turbidity	11.3	NTU
APCO-GSD-AP-MW-1	8/25/2020 11:20	Conductivity	1121.34	uS/cm
APCO-GSD-AP-MW-1	8/25/2020 11:20	DO	0.13	mg/L
APCO-GSD-AP-MW-1	8/25/2020 11:20	Depth to Water Detail	14.06	ft
APCO-GSD-AP-MW-1	8/25/2020 11:20	Oxidation Reduction Potention	72.07	mv
APCO-GSD-AP-MW-1	8/25/2020 11:20	pH	6.01	pH
APCO-GSD-AP-MW-1	8/25/2020 11:20	Temperature	18.22	C
APCO-GSD-AP-MW-1	8/25/2020 11:20	Turbidity	7.87	NTU
APCO-GSD-AP-MW-1	8/25/2020 11:25	Conductivity	1114.2	uS/cm
APCO-GSD-AP-MW-1	8/25/2020 11:25	DO	0.13	mg/L
APCO-GSD-AP-MW-1	8/25/2020 11:25	Depth to Water Detail	14.06	ft
APCO-GSD-AP-MW-1	8/25/2020 11:25	Oxidation Reduction Potention	68.12	mv
APCO-GSD-AP-MW-1	8/25/2020 11:25	pH	6	pH
APCO-GSD-AP-MW-1	8/25/2020 11:25	Temperature	18.21	C
APCO-GSD-AP-MW-1	8/25/2020 11:25	Turbidity	4.99	NTU

Alabama Power Company
Plant Gadsden Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-7	8/26/2020 8:19	Conductivity	138.68	uS/cm
APCO-GSD-AP-MW-7	8/26/2020 8:19	DO	0.3	mg/L
APCO-GSD-AP-MW-7	8/26/2020 8:19	Depth to Water Detail	11.75	ft
APCO-GSD-AP-MW-7	8/26/2020 8:19	Oxidation Reduction Potention	85.35	mv
APCO-GSD-AP-MW-7	8/26/2020 8:19	pH	5.94	pH
APCO-GSD-AP-MW-7	8/26/2020 8:19	Temperature	18.86	C
APCO-GSD-AP-MW-7	8/26/2020 8:19	Turbidity	12.35	NTU
APCO-GSD-AP-MW-7	8/26/2020 8:24	Conductivity	161.74	uS/cm
APCO-GSD-AP-MW-7	8/26/2020 8:24	DO	0.2	mg/L
APCO-GSD-AP-MW-7	8/26/2020 8:24	Depth to Water Detail	11.75	ft
APCO-GSD-AP-MW-7	8/26/2020 8:24	Oxidation Reduction Potention	81.48	mv
APCO-GSD-AP-MW-7	8/26/2020 8:24	pH	6.04	pH
APCO-GSD-AP-MW-7	8/26/2020 8:24	Temperature	18.85	C
APCO-GSD-AP-MW-7	8/26/2020 8:24	Turbidity	5.59	NTU
APCO-GSD-AP-MW-7	8/26/2020 8:29	Conductivity	173.52	uS/cm
APCO-GSD-AP-MW-7	8/26/2020 8:29	DO	0.16	mg/L
APCO-GSD-AP-MW-7	8/26/2020 8:29	Depth to Water Detail	11.75	ft
APCO-GSD-AP-MW-7	8/26/2020 8:29	Oxidation Reduction Potention	79.69	mv
APCO-GSD-AP-MW-7	8/26/2020 8:29	pH	6.07	pH
APCO-GSD-AP-MW-7	8/26/2020 8:29	Temperature	18.82	C
APCO-GSD-AP-MW-7	8/26/2020 8:29	Turbidity	2.98	NTU
APCO-GSD-AP-MW-7	8/26/2020 8:34	Conductivity	178.93	uS/cm
APCO-GSD-AP-MW-7	8/26/2020 8:34	DO	0.16	mg/L
APCO-GSD-AP-MW-7	8/26/2020 8:34	Depth to Water Detail	11.75	ft
APCO-GSD-AP-MW-7	8/26/2020 8:34	Oxidation Reduction Potention	77.3	mv
APCO-GSD-AP-MW-7	8/26/2020 8:34	pH	6.09	pH
APCO-GSD-AP-MW-7	8/26/2020 8:34	Temperature	18.87	C
APCO-GSD-AP-MW-7	8/26/2020 8:34	Turbidity	1.95	NTU
APCO-GSD-AP-MW-7	8/26/2020 8:39	Conductivity	182.41	uS/cm
APCO-GSD-AP-MW-7	8/26/2020 8:39	DO	0.19	mg/L
APCO-GSD-AP-MW-7	8/26/2020 8:39	Depth to Water Detail	11.75	ft
APCO-GSD-AP-MW-7	8/26/2020 8:39	Oxidation Reduction Potention	75.79	mv
APCO-GSD-AP-MW-7	8/26/2020 8:39	pH	6.1	pH
APCO-GSD-AP-MW-7	8/26/2020 8:39	Temperature	19.56	C
APCO-GSD-AP-MW-7	8/26/2020 8:39	Turbidity	2.18	NTU
APCO-GSD-AP-MW-7	8/26/2020 8:44	Conductivity	185.58	uS/cm
APCO-GSD-AP-MW-7	8/26/2020 8:44	DO	0.12	mg/L
APCO-GSD-AP-MW-7	8/26/2020 8:44	Depth to Water Detail	11.75	ft
APCO-GSD-AP-MW-7	8/26/2020 8:44	Oxidation Reduction Potention	73.95	mv
APCO-GSD-AP-MW-7	8/26/2020 8:44	pH	6.11	pH
APCO-GSD-AP-MW-7	8/26/2020 8:44	Temperature	18.79	C
APCO-GSD-AP-MW-7	8/26/2020 8:44	Turbidity	1.65	NTU

Alabama Power Company
Plant Gadsden Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-8	8/26/2020 9:33	Conductivity	282.55	uS/cm
APCO-GSD-AP-MW-8	8/26/2020 9:33	DO	0.21	mg/L
APCO-GSD-AP-MW-8	8/26/2020 9:33	Depth to Water Detail	11.27	ft
APCO-GSD-AP-MW-8	8/26/2020 9:33	Oxidation Reduction Potention	-7.17	mv
APCO-GSD-AP-MW-8	8/26/2020 9:33	pH	6.25	pH
APCO-GSD-AP-MW-8	8/26/2020 9:33	Temperature	18.3	C
APCO-GSD-AP-MW-8	8/26/2020 9:33	Turbidity	16.2	NTU
APCO-GSD-AP-MW-8	8/26/2020 9:38	Conductivity	281.17	uS/cm
APCO-GSD-AP-MW-8	8/26/2020 9:38	DO	0.17	mg/L
APCO-GSD-AP-MW-8	8/26/2020 9:38	Depth to Water Detail	11.27	ft
APCO-GSD-AP-MW-8	8/26/2020 9:38	Oxidation Reduction Potention	-14.15	mv
APCO-GSD-AP-MW-8	8/26/2020 9:38	pH	6.22	pH
APCO-GSD-AP-MW-8	8/26/2020 9:38	Temperature	18.36	C
APCO-GSD-AP-MW-8	8/26/2020 9:38	Turbidity	9.77	NTU
APCO-GSD-AP-MW-8	8/26/2020 9:43	Conductivity	296.44	uS/cm
APCO-GSD-AP-MW-8	8/26/2020 9:43	DO	0.15	mg/L
APCO-GSD-AP-MW-8	8/26/2020 9:43	Depth to Water Detail	11.27	ft
APCO-GSD-AP-MW-8	8/26/2020 9:43	Oxidation Reduction Potention	-22.04	mv
APCO-GSD-AP-MW-8	8/26/2020 9:43	pH	6.24	pH
APCO-GSD-AP-MW-8	8/26/2020 9:43	Temperature	18.27	C
APCO-GSD-AP-MW-8	8/26/2020 9:43	Turbidity	8.33	NTU
APCO-GSD-AP-MW-8	8/26/2020 9:48	Conductivity	310.71	uS/cm
APCO-GSD-AP-MW-8	8/26/2020 9:48	DO	0.14	mg/L
APCO-GSD-AP-MW-8	8/26/2020 9:48	Depth to Water Detail	11.27	ft
APCO-GSD-AP-MW-8	8/26/2020 9:48	Oxidation Reduction Potention	-29.27	mv
APCO-GSD-AP-MW-8	8/26/2020 9:48	pH	6.26	pH
APCO-GSD-AP-MW-8	8/26/2020 9:48	Temperature	18.24	C
APCO-GSD-AP-MW-8	8/26/2020 9:48	Turbidity	6.04	NTU
APCO-GSD-AP-MW-8	8/26/2020 9:53	Conductivity	322.56	uS/cm
APCO-GSD-AP-MW-8	8/26/2020 9:53	DO	0.14	mg/L
APCO-GSD-AP-MW-8	8/26/2020 9:53	Depth to Water Detail	11.27	ft
APCO-GSD-AP-MW-8	8/26/2020 9:53	Oxidation Reduction Potention	-34.91	mv
APCO-GSD-AP-MW-8	8/26/2020 9:53	pH	6.28	pH
APCO-GSD-AP-MW-8	8/26/2020 9:53	Temperature	18.25	C
APCO-GSD-AP-MW-8	8/26/2020 9:53	Turbidity	4.45	NTU
APCO-GSD-AP-MW-8	8/26/2020 9:58	Conductivity	337.06	uS/cm
APCO-GSD-AP-MW-8	8/26/2020 9:58	DO	0.14	mg/L
APCO-GSD-AP-MW-8	8/26/2020 9:58	Depth to Water Detail	11.27	ft
APCO-GSD-AP-MW-8	8/26/2020 9:58	Oxidation Reduction Potention	-39.58	mv
APCO-GSD-AP-MW-8	8/26/2020 9:58	pH	6.3	pH
APCO-GSD-AP-MW-8	8/26/2020 9:58	Temperature	18.23	C
APCO-GSD-AP-MW-8	8/26/2020 9:58	Turbidity	3.56	NTU
APCO-GSD-AP-MW-8	8/26/2020 10:03	Conductivity	343.15	uS/cm
APCO-GSD-AP-MW-8	8/26/2020 10:03	DO	0.12	mg/L

Alabama Power Company
Plant Gadsden Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-8	8/26/2020 10:03	Depth to Water Detail	11.27	ft
APCO-GSD-AP-MW-8	8/26/2020 10:03	Oxidation Reduction Potention	-42.36	mv
APCO-GSD-AP-MW-8	8/26/2020 10:03	pH	6.29	pH
APCO-GSD-AP-MW-8	8/26/2020 10:03	Temperature	18.25	C
APCO-GSD-AP-MW-8	8/26/2020 10:03	Turbidity	2.54	NTU
APCO-GSD-AP-MW-8	8/26/2020 10:08	Conductivity	349.74	uS/cm
APCO-GSD-AP-MW-8	8/26/2020 10:08	DO	0.13	mg/L
APCO-GSD-AP-MW-8	8/26/2020 10:08	Depth to Water Detail	11.27	ft
APCO-GSD-AP-MW-8	8/26/2020 10:08	Oxidation Reduction Potention	-44.18	mv
APCO-GSD-AP-MW-8	8/26/2020 10:08	pH	6.29	pH
APCO-GSD-AP-MW-8	8/26/2020 10:08	Temperature	18.25	C
APCO-GSD-AP-MW-8	8/26/2020 10:08	Turbidity	2.53	NTU

Alabama Power Company
Plant Gadsden Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-9	8/26/2020 10:44	Conductivity	305.49	uS/cm
APCO-GSD-AP-MW-9	8/26/2020 10:44	DO	0.22	mg/L
APCO-GSD-AP-MW-9	8/26/2020 10:44	Depth to Water Detail	12.59	ft
APCO-GSD-AP-MW-9	8/26/2020 10:44	Oxidation Reduction Potention	-35.09	mv
APCO-GSD-AP-MW-9	8/26/2020 10:44	pH	6.69	pH
APCO-GSD-AP-MW-9	8/26/2020 10:44	Temperature	19.19	C
APCO-GSD-AP-MW-9	8/26/2020 10:44	Turbidity	11.84	NTU
APCO-GSD-AP-MW-9	8/26/2020 10:49	Conductivity	307.39	uS/cm
APCO-GSD-AP-MW-9	8/26/2020 10:49	DO	0.18	mg/L
APCO-GSD-AP-MW-9	8/26/2020 10:49	Depth to Water Detail	12.59	ft
APCO-GSD-AP-MW-9	8/26/2020 10:49	Oxidation Reduction Potention	-36.85	mv
APCO-GSD-AP-MW-9	8/26/2020 10:49	pH	6.71	pH
APCO-GSD-AP-MW-9	8/26/2020 10:49	Temperature	19.08	C
APCO-GSD-AP-MW-9	8/26/2020 10:49	Turbidity	9.06	NTU
APCO-GSD-AP-MW-9	8/26/2020 10:54	Conductivity	311.3	uS/cm
APCO-GSD-AP-MW-9	8/26/2020 10:54	DO	0.17	mg/L
APCO-GSD-AP-MW-9	8/26/2020 10:54	Depth to Water Detail	12.59	ft
APCO-GSD-AP-MW-9	8/26/2020 10:54	Oxidation Reduction Potention	-38.91	mv
APCO-GSD-AP-MW-9	8/26/2020 10:54	pH	6.73	pH
APCO-GSD-AP-MW-9	8/26/2020 10:54	Temperature	19.06	C
APCO-GSD-AP-MW-9	8/26/2020 10:54	Turbidity	6.16	NTU
APCO-GSD-AP-MW-9	8/26/2020 10:59	Conductivity	313.69	uS/cm
APCO-GSD-AP-MW-9	8/26/2020 10:59	DO	0.17	mg/L
APCO-GSD-AP-MW-9	8/26/2020 10:59	Depth to Water Detail	12.59	ft
APCO-GSD-AP-MW-9	8/26/2020 10:59	Oxidation Reduction Potention	-43.17	mv
APCO-GSD-AP-MW-9	8/26/2020 10:59	pH	6.75	pH
APCO-GSD-AP-MW-9	8/26/2020 10:59	Temperature	19.03	C
APCO-GSD-AP-MW-9	8/26/2020 10:59	Turbidity	3.9	NTU

Alabama Power Company
Plant Gadsden Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-11	8/26/2020 11:52	Conductivity	638.79	uS/cm
APCO-GSD-AP-MW-11	8/26/2020 11:52	DO	0.15	mg/L
APCO-GSD-AP-MW-11	8/26/2020 11:52	Depth to Water Detail	9.35	ft
APCO-GSD-AP-MW-11	8/26/2020 11:52	Oxidation Reduction Potention	-20.63	mv
APCO-GSD-AP-MW-11	8/26/2020 11:52	pH	6.42	pH
APCO-GSD-AP-MW-11	8/26/2020 11:52	Temperature	20.11	C
APCO-GSD-AP-MW-11	8/26/2020 11:52	Turbidity	26.5	NTU
APCO-GSD-AP-MW-11	8/26/2020 11:57	Conductivity	633.41	uS/cm
APCO-GSD-AP-MW-11	8/26/2020 11:57	DO	0.13	mg/L
APCO-GSD-AP-MW-11	8/26/2020 11:57	Depth to Water Detail	9.39	ft
APCO-GSD-AP-MW-11	8/26/2020 11:57	Oxidation Reduction Potention	-28.35	mv
APCO-GSD-AP-MW-11	8/26/2020 11:57	pH	6.43	pH
APCO-GSD-AP-MW-11	8/26/2020 11:57	Temperature	20.11	C
APCO-GSD-AP-MW-11	8/26/2020 11:57	Turbidity	27.3	NTU
APCO-GSD-AP-MW-11	8/26/2020 12:02	Conductivity	628.33	uS/cm
APCO-GSD-AP-MW-11	8/26/2020 12:02	DO	0.12	mg/L
APCO-GSD-AP-MW-11	8/26/2020 12:02	Depth to Water Detail	9.46	ft
APCO-GSD-AP-MW-11	8/26/2020 12:02	Oxidation Reduction Potention	-31.93	mv
APCO-GSD-AP-MW-11	8/26/2020 12:02	pH	6.42	pH
APCO-GSD-AP-MW-11	8/26/2020 12:02	Temperature	20.11	C
APCO-GSD-AP-MW-11	8/26/2020 12:02	Turbidity	22.7	NTU
APCO-GSD-AP-MW-11	8/26/2020 12:07	Conductivity	628.82	uS/cm
APCO-GSD-AP-MW-11	8/26/2020 12:07	DO	0.12	mg/L
APCO-GSD-AP-MW-11	8/26/2020 12:07	Depth to Water Detail	9.46	ft
APCO-GSD-AP-MW-11	8/26/2020 12:07	Oxidation Reduction Potention	-34.4	mv
APCO-GSD-AP-MW-11	8/26/2020 12:07	pH	6.41	pH
APCO-GSD-AP-MW-11	8/26/2020 12:07	Temperature	20.04	C
APCO-GSD-AP-MW-11	8/26/2020 12:07	Turbidity	14.6	NTU
APCO-GSD-AP-MW-11	8/26/2020 12:12	Conductivity	629.63	uS/cm
APCO-GSD-AP-MW-11	8/26/2020 12:12	DO	0.11	mg/L
APCO-GSD-AP-MW-11	8/26/2020 12:12	Depth to Water Detail	9.46	ft
APCO-GSD-AP-MW-11	8/26/2020 12:12	Oxidation Reduction Potention	-35.86	mv
APCO-GSD-AP-MW-11	8/26/2020 12:12	pH	6.4	pH
APCO-GSD-AP-MW-11	8/26/2020 12:12	Temperature	20.06	C
APCO-GSD-AP-MW-11	8/26/2020 12:12	Turbidity	11.7	NTU
APCO-GSD-AP-MW-11	8/26/2020 12:17	Conductivity	628.33	uS/cm
APCO-GSD-AP-MW-11	8/26/2020 12:17	DO	0.11	mg/L
APCO-GSD-AP-MW-11	8/26/2020 12:17	Depth to Water Detail	9.46	ft
APCO-GSD-AP-MW-11	8/26/2020 12:17	Oxidation Reduction Potention	-36.89	mv
APCO-GSD-AP-MW-11	8/26/2020 12:17	pH	6.39	pH
APCO-GSD-AP-MW-11	8/26/2020 12:17	Temperature	20.07	C
APCO-GSD-AP-MW-11	8/26/2020 12:17	Turbidity	10.38	NTU
APCO-GSD-AP-MW-11	8/26/2020 12:22	Conductivity	628.42	uS/cm
APCO-GSD-AP-MW-11	8/26/2020 12:22	DO	0.11	mg/L

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Plant Gadsden Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-11	8/26/2020 12:22	Depth to Water Detail	9.46	ft
APCO-GSD-AP-MW-11	8/26/2020 12:22	Oxidation Reduction Potention	-37.91	mv
APCO-GSD-AP-MW-11	8/26/2020 12:22	pH	6.38	pH
APCO-GSD-AP-MW-11	8/26/2020 12:22	Temperature	20.08	C
APCO-GSD-AP-MW-11	8/26/2020 12:22	Turbidity	7.33	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-12	8/26/2020 12:59	Conductivity	527.55	uS/cm
APCO-GSD-AP-MW-12	8/26/2020 12:59	DO	0.15	mg/L
APCO-GSD-AP-MW-12	8/26/2020 12:59	Depth to Water Detail	11.49	ft
APCO-GSD-AP-MW-12	8/26/2020 12:59	Oxidation Reduction Potention	62.89	mv
APCO-GSD-AP-MW-12	8/26/2020 12:59	pH	5.64	pH
APCO-GSD-AP-MW-12	8/26/2020 12:59	Temperature	18.54	C
APCO-GSD-AP-MW-12	8/26/2020 12:59	Turbidity	12.01	NTU
APCO-GSD-AP-MW-12	8/26/2020 13:04	Conductivity	567.48	uS/cm
APCO-GSD-AP-MW-12	8/26/2020 13:04	DO	0.13	mg/L
APCO-GSD-AP-MW-12	8/26/2020 13:04	Depth to Water Detail	11.49	ft
APCO-GSD-AP-MW-12	8/26/2020 13:04	Oxidation Reduction Potention	65.86	mv
APCO-GSD-AP-MW-12	8/26/2020 13:04	pH	5.63	pH
APCO-GSD-AP-MW-12	8/26/2020 13:04	Temperature	18.61	C
APCO-GSD-AP-MW-12	8/26/2020 13:04	Turbidity	3.79	NTU
APCO-GSD-AP-MW-12	8/26/2020 13:09	Conductivity	575.06	uS/cm
APCO-GSD-AP-MW-12	8/26/2020 13:09	DO	0.11	mg/L
APCO-GSD-AP-MW-12	8/26/2020 13:09	Depth to Water Detail	11.49	ft
APCO-GSD-AP-MW-12	8/26/2020 13:09	Oxidation Reduction Potention	67.56	mv
APCO-GSD-AP-MW-12	8/26/2020 13:09	pH	5.63	pH
APCO-GSD-AP-MW-12	8/26/2020 13:09	Temperature	18.76	C
APCO-GSD-AP-MW-12	8/26/2020 13:09	Turbidity	1.87	NTU
APCO-GSD-AP-MW-12	8/26/2020 13:14	Conductivity	579.07	uS/cm
APCO-GSD-AP-MW-12	8/26/2020 13:14	DO	0.11	mg/L
APCO-GSD-AP-MW-12	8/26/2020 13:14	Depth to Water Detail	11.49	ft
APCO-GSD-AP-MW-12	8/26/2020 13:14	Oxidation Reduction Potention	69.12	mv
APCO-GSD-AP-MW-12	8/26/2020 13:14	pH	5.63	pH
APCO-GSD-AP-MW-12	8/26/2020 13:14	Temperature	18.79	C
APCO-GSD-AP-MW-12	8/26/2020 13:14	Turbidity	1.46	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-14	8/25/2020 9:14	Conductivity	291.49	uS/cm
APCO-GSD-AP-MW-14	8/25/2020 9:14	DO	4.41	mg/L
APCO-GSD-AP-MW-14	8/25/2020 9:14	Depth to Water Detail	22.24	ft
APCO-GSD-AP-MW-14	8/25/2020 9:14	Oxidation Reduction Potention	233.36	mv
APCO-GSD-AP-MW-14	8/25/2020 9:14	pH	4.09	pH
APCO-GSD-AP-MW-14	8/25/2020 9:14	Temperature	18.99	C
APCO-GSD-AP-MW-14	8/25/2020 9:14	Turbidity	67.7	NTU
APCO-GSD-AP-MW-14	8/25/2020 9:19	Conductivity	293.2	uS/cm
APCO-GSD-AP-MW-14	8/25/2020 9:19	DO	4.39	mg/L
APCO-GSD-AP-MW-14	8/25/2020 9:19	Depth to Water Detail	22.24	ft
APCO-GSD-AP-MW-14	8/25/2020 9:19	Oxidation Reduction Potention	236.4	mv
APCO-GSD-AP-MW-14	8/25/2020 9:19	pH	4.07	pH
APCO-GSD-AP-MW-14	8/25/2020 9:19	Temperature	18.94	C
APCO-GSD-AP-MW-14	8/25/2020 9:19	Turbidity	22.6	NTU
APCO-GSD-AP-MW-14	8/25/2020 9:24	Conductivity	293.81	uS/cm
APCO-GSD-AP-MW-14	8/25/2020 9:24	DO	4.37	mg/L
APCO-GSD-AP-MW-14	8/25/2020 9:24	Depth to Water Detail	22.24	ft
APCO-GSD-AP-MW-14	8/25/2020 9:24	Oxidation Reduction Potention	239.35	mv
APCO-GSD-AP-MW-14	8/25/2020 9:24	pH	4.06	pH
APCO-GSD-AP-MW-14	8/25/2020 9:24	Temperature	18.97	C
APCO-GSD-AP-MW-14	8/25/2020 9:24	Turbidity	12.84	NTU
APCO-GSD-AP-MW-14	8/25/2020 9:29	Conductivity	293.28	uS/cm
APCO-GSD-AP-MW-14	8/25/2020 9:29	DO	4.38	mg/L
APCO-GSD-AP-MW-14	8/25/2020 9:29	Depth to Water Detail	22.24	ft
APCO-GSD-AP-MW-14	8/25/2020 9:29	Oxidation Reduction Potention	242.18	mv
APCO-GSD-AP-MW-14	8/25/2020 9:29	pH	4.04	pH
APCO-GSD-AP-MW-14	8/25/2020 9:29	Temperature	18.96	C
APCO-GSD-AP-MW-14	8/25/2020 9:29	Turbidity	5.83	NTU
APCO-GSD-AP-MW-14	8/25/2020 9:34	Conductivity	292.74	uS/cm
APCO-GSD-AP-MW-14	8/25/2020 9:34	DO	4.36	mg/L
APCO-GSD-AP-MW-14	8/25/2020 9:34	Depth to Water Detail	22.24	ft
APCO-GSD-AP-MW-14	8/25/2020 9:34	Oxidation Reduction Potention	244.52	mv
APCO-GSD-AP-MW-14	8/25/2020 9:34	pH	4.03	pH
APCO-GSD-AP-MW-14	8/25/2020 9:34	Temperature	18.95	C
APCO-GSD-AP-MW-14	8/25/2020 9:34	Turbidity	3.45	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-16	8/25/2020 7:43	Conductivity	297.85	uS/cm
APCO-GSD-AP-MW-16	8/25/2020 7:43	DO	4.7	mg/L
APCO-GSD-AP-MW-16	8/25/2020 7:43	Depth to Water Detail	26.22	ft
APCO-GSD-AP-MW-16	8/25/2020 7:43	Oxidation Reduction Potention	201.26	mv
APCO-GSD-AP-MW-16	8/25/2020 7:43	pH	4.2	pH
APCO-GSD-AP-MW-16	8/25/2020 7:43	Temperature	19.3	C
APCO-GSD-AP-MW-16	8/25/2020 7:43	Turbidity	93.6	NTU
APCO-GSD-AP-MW-16	8/25/2020 7:48	Conductivity	286	uS/cm
APCO-GSD-AP-MW-16	8/25/2020 7:48	DO	4.65	mg/L
APCO-GSD-AP-MW-16	8/25/2020 7:48	Depth to Water Detail	26.26	ft
APCO-GSD-AP-MW-16	8/25/2020 7:48	Oxidation Reduction Potention	203.16	mv
APCO-GSD-AP-MW-16	8/25/2020 7:48	pH	4.23	pH
APCO-GSD-AP-MW-16	8/25/2020 7:48	Temperature	19.32	C
APCO-GSD-AP-MW-16	8/25/2020 7:48	Turbidity	94.6	NTU
APCO-GSD-AP-MW-16	8/25/2020 7:53	Conductivity	280.04	uS/cm
APCO-GSD-AP-MW-16	8/25/2020 7:53	DO	4.62	mg/L
APCO-GSD-AP-MW-16	8/25/2020 7:53	Depth to Water Detail	26.26	ft
APCO-GSD-AP-MW-16	8/25/2020 7:53	Oxidation Reduction Potention	205.31	mv
APCO-GSD-AP-MW-16	8/25/2020 7:53	pH	4.23	pH
APCO-GSD-AP-MW-16	8/25/2020 7:53	Temperature	19.33	C
APCO-GSD-AP-MW-16	8/25/2020 7:53	Turbidity	28.3	NTU
APCO-GSD-AP-MW-16	8/25/2020 7:58	Conductivity	270.64	uS/cm
APCO-GSD-AP-MW-16	8/25/2020 7:58	DO	4.64	mg/L
APCO-GSD-AP-MW-16	8/25/2020 7:58	Depth to Water Detail	26.26	ft
APCO-GSD-AP-MW-16	8/25/2020 7:58	Oxidation Reduction Potention	206.97	mv
APCO-GSD-AP-MW-16	8/25/2020 7:58	pH	4.23	pH
APCO-GSD-AP-MW-16	8/25/2020 7:58	Temperature	19.33	C
APCO-GSD-AP-MW-16	8/25/2020 7:58	Turbidity	13.8	NTU
APCO-GSD-AP-MW-16	8/25/2020 8:03	Conductivity	261.47	uS/cm
APCO-GSD-AP-MW-16	8/25/2020 8:03	DO	4.67	mg/L
APCO-GSD-AP-MW-16	8/25/2020 8:03	Depth to Water Detail	26.26	ft
APCO-GSD-AP-MW-16	8/25/2020 8:03	Oxidation Reduction Potention	208.39	mv
APCO-GSD-AP-MW-16	8/25/2020 8:03	pH	4.23	pH
APCO-GSD-AP-MW-16	8/25/2020 8:03	Temperature	19.3	C
APCO-GSD-AP-MW-16	8/25/2020 8:03	Turbidity	9.45	NTU
APCO-GSD-AP-MW-16	8/25/2020 8:08	Conductivity	255.44	uS/cm
APCO-GSD-AP-MW-16	8/25/2020 8:08	DO	4.68	mg/L
APCO-GSD-AP-MW-16	8/25/2020 8:08	Depth to Water Detail	26.26	ft
APCO-GSD-AP-MW-16	8/25/2020 8:08	Oxidation Reduction Potention	210.14	mv
APCO-GSD-AP-MW-16	8/25/2020 8:08	pH	4.22	pH
APCO-GSD-AP-MW-16	8/25/2020 8:08	Temperature	19.3	C
APCO-GSD-AP-MW-16	8/25/2020 8:08	Turbidity	5.42	NTU
APCO-GSD-AP-MW-16	8/25/2020 8:13	Conductivity	254.18	uS/cm
APCO-GSD-AP-MW-16	8/25/2020 8:13	DO	4.67	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-16	8/25/2020 8:13	Depth to Water Detail	26.26	ft
APCO-GSD-AP-MW-16	8/25/2020 8:13	Oxidation Reduction Potention	212.33	mv
APCO-GSD-AP-MW-16	8/25/2020 8:13	pH	4.2	pH
APCO-GSD-AP-MW-16	8/25/2020 8:13	Temperature	19.33	C
APCO-GSD-AP-MW-16	8/25/2020 8:13	Turbidity	3.23	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-18H	8/25/2020 12:03	Conductivity	141.03	uS/cm
APCO-GSD-AP-MW-18H	8/25/2020 12:03	DO	7.87	mg/L
APCO-GSD-AP-MW-18H	8/25/2020 12:03	Depth to Water Detail	13.36	ft
APCO-GSD-AP-MW-18H	8/25/2020 12:03	Oxidation Reduction Potention	126.75	mv
APCO-GSD-AP-MW-18H	8/25/2020 12:03	pH	5.24	pH
APCO-GSD-AP-MW-18H	8/25/2020 12:03	Temperature	17.13	C
APCO-GSD-AP-MW-18H	8/25/2020 12:03	Turbidity	16.2	NTU
APCO-GSD-AP-MW-18H	8/25/2020 12:08	Conductivity	163.55	uS/cm
APCO-GSD-AP-MW-18H	8/25/2020 12:08	DO	7.6	mg/L
APCO-GSD-AP-MW-18H	8/25/2020 12:08	Depth to Water Detail	13.36	ft
APCO-GSD-AP-MW-18H	8/25/2020 12:08	Oxidation Reduction Potention	135.23	mv
APCO-GSD-AP-MW-18H	8/25/2020 12:08	pH	5.2	pH
APCO-GSD-AP-MW-18H	8/25/2020 12:08	Temperature	17.12	C
APCO-GSD-AP-MW-18H	8/25/2020 12:08	Turbidity	13.5	NTU
APCO-GSD-AP-MW-18H	8/25/2020 12:13	Conductivity	174.52	uS/cm
APCO-GSD-AP-MW-18H	8/25/2020 12:13	DO	7.54	mg/L
APCO-GSD-AP-MW-18H	8/25/2020 12:13	Depth to Water Detail	13.36	ft
APCO-GSD-AP-MW-18H	8/25/2020 12:13	Oxidation Reduction Potention	140.99	mv
APCO-GSD-AP-MW-18H	8/25/2020 12:13	pH	5.18	pH
APCO-GSD-AP-MW-18H	8/25/2020 12:13	Temperature	17.15	C
APCO-GSD-AP-MW-18H	8/25/2020 12:13	Turbidity	9.59	NTU
APCO-GSD-AP-MW-18H	8/25/2020 12:18	Conductivity	176.53	uS/cm
APCO-GSD-AP-MW-18H	8/25/2020 12:18	DO	7.51	mg/L
APCO-GSD-AP-MW-18H	8/25/2020 12:18	Depth to Water Detail	13.36	ft
APCO-GSD-AP-MW-18H	8/25/2020 12:18	Oxidation Reduction Potention	145.77	mv
APCO-GSD-AP-MW-18H	8/25/2020 12:18	pH	5.15	pH
APCO-GSD-AP-MW-18H	8/25/2020 12:18	Temperature	17.07	C
APCO-GSD-AP-MW-18H	8/25/2020 12:18	Turbidity	4.52	NTU
APCO-GSD-AP-MW-18H	8/25/2020 12:23	Conductivity	179.89	uS/cm
APCO-GSD-AP-MW-18H	8/25/2020 12:23	DO	7.46	mg/L
APCO-GSD-AP-MW-18H	8/25/2020 12:23	Depth to Water Detail	13.36	ft
APCO-GSD-AP-MW-18H	8/25/2020 12:23	Oxidation Reduction Potention	150.16	mv
APCO-GSD-AP-MW-18H	8/25/2020 12:23	pH	5.13	pH
APCO-GSD-AP-MW-18H	8/25/2020 12:23	Temperature	17.07	C
APCO-GSD-AP-MW-18H	8/25/2020 12:23	Turbidity	2.87	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-17	8/24/2020 11:50	Conductivity	319.58	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 11:50	DO	1.08	mg/L
APCO-GSD-AP-MW-17	8/24/2020 11:50	Depth to Water Detail	21.12	ft
APCO-GSD-AP-MW-17	8/24/2020 11:50	Oxidation Reduction Potention	-53.66	mv
APCO-GSD-AP-MW-17	8/24/2020 11:50	pH	7.6	pH
APCO-GSD-AP-MW-17	8/24/2020 11:50	Temperature	22.34	C
APCO-GSD-AP-MW-17	8/24/2020 11:50	Turbidity	91.5	NTU
APCO-GSD-AP-MW-17	8/24/2020 11:55	Conductivity	317.98	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 11:55	DO	1	mg/L
APCO-GSD-AP-MW-17	8/24/2020 11:55	Depth to Water Detail	21.46	ft
APCO-GSD-AP-MW-17	8/24/2020 11:55	Oxidation Reduction Potention	-52.97	mv
APCO-GSD-AP-MW-17	8/24/2020 11:55	pH	7.64	pH
APCO-GSD-AP-MW-17	8/24/2020 11:55	Temperature	22.51	C
APCO-GSD-AP-MW-17	8/24/2020 11:55	Turbidity	71.4	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:00	Conductivity	314.29	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:00	DO	0.9	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:00	Depth to Water Detail	21.77	ft
APCO-GSD-AP-MW-17	8/24/2020 12:00	Oxidation Reduction Potention	-53.14	mv
APCO-GSD-AP-MW-17	8/24/2020 12:00	pH	7.59	pH
APCO-GSD-AP-MW-17	8/24/2020 12:00	Temperature	22.66	C
APCO-GSD-AP-MW-17	8/24/2020 12:00	Turbidity	52.3	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:05	Conductivity	313.79	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:05	DO	0.92	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:05	Depth to Water Detail	22.24	ft
APCO-GSD-AP-MW-17	8/24/2020 12:05	Oxidation Reduction Potention	-54.04	mv
APCO-GSD-AP-MW-17	8/24/2020 12:05	pH	7.68	pH
APCO-GSD-AP-MW-17	8/24/2020 12:05	Temperature	22.98	C
APCO-GSD-AP-MW-17	8/24/2020 12:05	Turbidity	35.9	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:10	Conductivity	311.82	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:10	DO	0.92	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:10	Depth to Water Detail	22.33	ft
APCO-GSD-AP-MW-17	8/24/2020 12:10	Oxidation Reduction Potention	-54.14	mv
APCO-GSD-AP-MW-17	8/24/2020 12:10	pH	7.69	pH
APCO-GSD-AP-MW-17	8/24/2020 12:10	Temperature	23.14	C
APCO-GSD-AP-MW-17	8/24/2020 12:10	Turbidity	32.5	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:15	Conductivity	307.33	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:15	DO	0.92	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:15	Depth to Water Detail	22.46	ft
APCO-GSD-AP-MW-17	8/24/2020 12:15	Oxidation Reduction Potention	-55.03	mv
APCO-GSD-AP-MW-17	8/24/2020 12:15	pH	7.7	pH
APCO-GSD-AP-MW-17	8/24/2020 12:15	Temperature	22.8	C
APCO-GSD-AP-MW-17	8/24/2020 12:15	Turbidity	32.1	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:20	Conductivity	307.89	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:20	DO	0.92	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-17	8/24/2020 12:20	Depth to Water Detail	22.51	ft
APCO-GSD-AP-MW-17	8/24/2020 12:20	Oxidation Reduction Potention	-56.34	mv
APCO-GSD-AP-MW-17	8/24/2020 12:20	pH	7.72	pH
APCO-GSD-AP-MW-17	8/24/2020 12:20	Temperature	22.73	C
APCO-GSD-AP-MW-17	8/24/2020 12:20	Turbidity	32.3	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:25	Conductivity	307.87	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:25	DO	0.93	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:25	Depth to Water Detail	22.64	ft
APCO-GSD-AP-MW-17	8/24/2020 12:25	Oxidation Reduction Potention	-57.37	mv
APCO-GSD-AP-MW-17	8/24/2020 12:25	pH	7.74	pH
APCO-GSD-AP-MW-17	8/24/2020 12:25	Temperature	22.72	C
APCO-GSD-AP-MW-17	8/24/2020 12:25	Turbidity	36.8	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:30	Conductivity	306.71	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:30	DO	0.93	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:30	Depth to Water Detail	22.73	ft
APCO-GSD-AP-MW-17	8/24/2020 12:30	Oxidation Reduction Potention	-58.42	mv
APCO-GSD-AP-MW-17	8/24/2020 12:30	pH	7.74	pH
APCO-GSD-AP-MW-17	8/24/2020 12:30	Temperature	22.75	C
APCO-GSD-AP-MW-17	8/24/2020 12:30	Turbidity	26.2	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:35	Conductivity	306.21	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:35	DO	0.91	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:35	Depth to Water Detail	22.8	ft
APCO-GSD-AP-MW-17	8/24/2020 12:35	Oxidation Reduction Potention	-59.32	mv
APCO-GSD-AP-MW-17	8/24/2020 12:35	pH	7.74	pH
APCO-GSD-AP-MW-17	8/24/2020 12:35	Temperature	22.74	C
APCO-GSD-AP-MW-17	8/24/2020 12:35	Turbidity	25.9	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:40	Conductivity	305.69	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:40	DO	0.91	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:40	Depth to Water Detail	22.96	ft
APCO-GSD-AP-MW-17	8/24/2020 12:40	Oxidation Reduction Potention	-60.43	mv
APCO-GSD-AP-MW-17	8/24/2020 12:40	pH	7.75	pH
APCO-GSD-AP-MW-17	8/24/2020 12:40	Temperature	22.77	C
APCO-GSD-AP-MW-17	8/24/2020 12:40	Turbidity	24.7	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:45	Conductivity	304.19	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:45	DO	0.91	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:45	Depth to Water Detail	22.89	ft
APCO-GSD-AP-MW-17	8/24/2020 12:45	Oxidation Reduction Potention	-60.64	mv
APCO-GSD-AP-MW-17	8/24/2020 12:45	pH	7.76	pH
APCO-GSD-AP-MW-17	8/24/2020 12:45	Temperature	22.93	C
APCO-GSD-AP-MW-17	8/24/2020 12:45	Turbidity	27	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:50	Conductivity	302.6	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:50	DO	0.9	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:50	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 12:50	Oxidation Reduction Potention	-61.8	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-17	8/24/2020 12:50	pH	7.78	pH
APCO-GSD-AP-MW-17	8/24/2020 12:50	Temperature	23.14	C
APCO-GSD-AP-MW-17	8/24/2020 12:50	Turbidity	29.3	NTU
APCO-GSD-AP-MW-17	8/24/2020 12:55	Conductivity	301.74	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 12:55	DO	0.92	mg/L
APCO-GSD-AP-MW-17	8/24/2020 12:55	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 12:55	Oxidation Reduction Potention	-62.12	mv
APCO-GSD-AP-MW-17	8/24/2020 12:55	pH	7.8	pH
APCO-GSD-AP-MW-17	8/24/2020 12:55	Temperature	23.07	C
APCO-GSD-AP-MW-17	8/24/2020 12:55	Turbidity	20.2	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:00	Conductivity	300.48	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:00	DO	0.89	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:00	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:00	Oxidation Reduction Potention	-63.56	mv
APCO-GSD-AP-MW-17	8/24/2020 13:00	pH	7.82	pH
APCO-GSD-AP-MW-17	8/24/2020 13:00	Temperature	23	C
APCO-GSD-AP-MW-17	8/24/2020 13:00	Turbidity	20.4	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:05	Conductivity	300.91	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:05	DO	0.9	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:05	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:05	Oxidation Reduction Potention	-64.29	mv
APCO-GSD-AP-MW-17	8/24/2020 13:05	pH	7.84	pH
APCO-GSD-AP-MW-17	8/24/2020 13:05	Temperature	22.98	C
APCO-GSD-AP-MW-17	8/24/2020 13:05	Turbidity	27.1	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:10	Conductivity	300.45	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:10	DO	0.89	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:10	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:10	Oxidation Reduction Potention	-65.87	mv
APCO-GSD-AP-MW-17	8/24/2020 13:10	pH	7.85	pH
APCO-GSD-AP-MW-17	8/24/2020 13:10	Temperature	23.38	C
APCO-GSD-AP-MW-17	8/24/2020 13:10	Turbidity	19.1	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:15	Conductivity	298.81	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:15	DO	0.88	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:15	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:15	Oxidation Reduction Potention	-67.4	mv
APCO-GSD-AP-MW-17	8/24/2020 13:15	pH	7.88	pH
APCO-GSD-AP-MW-17	8/24/2020 13:15	Temperature	23.25	C
APCO-GSD-AP-MW-17	8/24/2020 13:15	Turbidity	17.5	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:20	Conductivity	298.55	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:20	DO	0.89	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:20	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:20	Oxidation Reduction Potention	-68.66	mv
APCO-GSD-AP-MW-17	8/24/2020 13:20	pH	7.91	pH
APCO-GSD-AP-MW-17	8/24/2020 13:20	Temperature	23.17	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-17	8/24/2020 13:20	Turbidity	16	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:25	Conductivity	297.44	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:25	DO	0.88	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:25	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:25	Oxidation Reduction Potention	-69.66	mv
APCO-GSD-AP-MW-17	8/24/2020 13:25	pH	7.94	pH
APCO-GSD-AP-MW-17	8/24/2020 13:25	Temperature	22.99	C
APCO-GSD-AP-MW-17	8/24/2020 13:25	Turbidity	16.8	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:30	Conductivity	299.56	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:30	DO	0.89	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:30	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:30	Oxidation Reduction Potention	-71.27	mv
APCO-GSD-AP-MW-17	8/24/2020 13:30	pH	7.96	pH
APCO-GSD-AP-MW-17	8/24/2020 13:30	Temperature	23	C
APCO-GSD-AP-MW-17	8/24/2020 13:30	Turbidity	16.1	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:35	Conductivity	298.82	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:35	DO	0.88	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:35	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:35	Oxidation Reduction Potention	-72.25	mv
APCO-GSD-AP-MW-17	8/24/2020 13:35	pH	7.98	pH
APCO-GSD-AP-MW-17	8/24/2020 13:35	Temperature	23.08	C
APCO-GSD-AP-MW-17	8/24/2020 13:35	Turbidity	14.7	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:40	Conductivity	298.75	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:40	DO	0.9	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:40	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:40	Oxidation Reduction Potention	-73.48	mv
APCO-GSD-AP-MW-17	8/24/2020 13:40	pH	8	pH
APCO-GSD-AP-MW-17	8/24/2020 13:40	Temperature	23.07	C
APCO-GSD-AP-MW-17	8/24/2020 13:40	Turbidity	14.9	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:45	Conductivity	298.52	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:45	DO	0.89	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:45	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:45	Oxidation Reduction Potention	-74.58	mv
APCO-GSD-AP-MW-17	8/24/2020 13:45	pH	8.02	pH
APCO-GSD-AP-MW-17	8/24/2020 13:45	Temperature	23.05	C
APCO-GSD-AP-MW-17	8/24/2020 13:45	Turbidity	16.1	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:50	Conductivity	298.66	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 13:50	DO	0.88	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:50	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:50	Oxidation Reduction Potention	-75.97	mv
APCO-GSD-AP-MW-17	8/24/2020 13:50	pH	8.05	pH
APCO-GSD-AP-MW-17	8/24/2020 13:50	Temperature	22.97	C
APCO-GSD-AP-MW-17	8/24/2020 13:50	Turbidity	13.1	NTU
APCO-GSD-AP-MW-17	8/24/2020 13:55	Conductivity	297.51	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-17	8/24/2020 13:55	DO	0.89	mg/L
APCO-GSD-AP-MW-17	8/24/2020 13:55	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 13:55	Oxidation Reduction Potention	-77.05	mv
APCO-GSD-AP-MW-17	8/24/2020 13:55	pH	8.06	pH
APCO-GSD-AP-MW-17	8/24/2020 13:55	Temperature	23.07	C
APCO-GSD-AP-MW-17	8/24/2020 13:55	Turbidity	13.7	NTU
APCO-GSD-AP-MW-17	8/24/2020 14:00	Conductivity	286.54	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 14:00	DO	1.08	mg/L
APCO-GSD-AP-MW-17	8/24/2020 14:00	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 14:00	Oxidation Reduction Potention	-70.22	mv
APCO-GSD-AP-MW-17	8/24/2020 14:00	pH	8.08	pH
APCO-GSD-AP-MW-17	8/24/2020 14:00	Temperature	23.03	C
APCO-GSD-AP-MW-17	8/24/2020 14:00	Turbidity	15.4	NTU
APCO-GSD-AP-MW-17	8/24/2020 14:05	Conductivity	286.03	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 14:05	DO	0.98	mg/L
APCO-GSD-AP-MW-17	8/24/2020 14:05	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 14:05	Oxidation Reduction Potention	-73.77	mv
APCO-GSD-AP-MW-17	8/24/2020 14:05	pH	8.09	pH
APCO-GSD-AP-MW-17	8/24/2020 14:05	Temperature	23.04	C
APCO-GSD-AP-MW-17	8/24/2020 14:05	Turbidity	12.2	NTU
APCO-GSD-AP-MW-17	8/24/2020 14:10	Conductivity	285.04	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 14:10	DO	0.95	mg/L
APCO-GSD-AP-MW-17	8/24/2020 14:10	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 14:10	Oxidation Reduction Potention	-75.88	mv
APCO-GSD-AP-MW-17	8/24/2020 14:10	pH	8.09	pH
APCO-GSD-AP-MW-17	8/24/2020 14:10	Temperature	23.3	C
APCO-GSD-AP-MW-17	8/24/2020 14:10	Turbidity	12.74	NTU
APCO-GSD-AP-MW-17	8/24/2020 14:15	Conductivity	284.82	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 14:15	DO	0.93	mg/L
APCO-GSD-AP-MW-17	8/24/2020 14:15	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 14:15	Oxidation Reduction Potention	-77.73	mv
APCO-GSD-AP-MW-17	8/24/2020 14:15	pH	8.11	pH
APCO-GSD-AP-MW-17	8/24/2020 14:15	Temperature	23.18	C
APCO-GSD-AP-MW-17	8/24/2020 14:15	Turbidity	12.3	NTU
APCO-GSD-AP-MW-17	8/24/2020 14:20	Conductivity	285.45	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 14:20	DO	0.94	mg/L
APCO-GSD-AP-MW-17	8/24/2020 14:20	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 14:20	Oxidation Reduction Potention	-79.05	mv
APCO-GSD-AP-MW-17	8/24/2020 14:20	pH	8.12	pH
APCO-GSD-AP-MW-17	8/24/2020 14:20	Temperature	23.38	C
APCO-GSD-AP-MW-17	8/24/2020 14:20	Turbidity	11.31	NTU
APCO-GSD-AP-MW-17	8/24/2020 14:25	Conductivity	285.29	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 14:25	DO	0.92	mg/L
APCO-GSD-AP-MW-17	8/24/2020 14:25	Depth to Water Detail	23.02	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-17	8/24/2020 14:25	Oxidation Reduction Potention	-80.01	mv
APCO-GSD-AP-MW-17	8/24/2020 14:25	pH	8.13	pH
APCO-GSD-AP-MW-17	8/24/2020 14:25	Temperature	23.81	C
APCO-GSD-AP-MW-17	8/24/2020 14:25	Turbidity	11.19	NTU
APCO-GSD-AP-MW-17	8/24/2020 14:30	Conductivity	286.74	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 14:30	DO	0.88	mg/L
APCO-GSD-AP-MW-17	8/24/2020 14:30	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 14:30	Oxidation Reduction Potention	-80.75	mv
APCO-GSD-AP-MW-17	8/24/2020 14:30	pH	8.14	pH
APCO-GSD-AP-MW-17	8/24/2020 14:30	Temperature	23.76	C
APCO-GSD-AP-MW-17	8/24/2020 14:30	Turbidity	11.02	NTU
APCO-GSD-AP-MW-17	8/24/2020 14:35	Conductivity	283.77	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 14:35	DO	0.87	mg/L
APCO-GSD-AP-MW-17	8/24/2020 14:35	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 14:35	Oxidation Reduction Potention	-81.05	mv
APCO-GSD-AP-MW-17	8/24/2020 14:35	pH	8.16	pH
APCO-GSD-AP-MW-17	8/24/2020 14:35	Temperature	23.55	C
APCO-GSD-AP-MW-17	8/24/2020 14:35	Turbidity	10.32	NTU
APCO-GSD-AP-MW-17	8/24/2020 14:40	Conductivity	282.97	uS/cm
APCO-GSD-AP-MW-17	8/24/2020 14:40	DO	0.88	mg/L
APCO-GSD-AP-MW-17	8/24/2020 14:40	Depth to Water Detail	23.02	ft
APCO-GSD-AP-MW-17	8/24/2020 14:40	Oxidation Reduction Potention	-81.75	mv
APCO-GSD-AP-MW-17	8/24/2020 14:40	pH	8.17	pH
APCO-GSD-AP-MW-17	8/24/2020 14:40	Temperature	23.2	C
APCO-GSD-AP-MW-17	8/24/2020 14:40	Turbidity	9.38	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-19H	8/26/2020 13:52	Conductivity	325.61	uS/cm
APCO-GSD-AP-MW-19H	8/26/2020 13:52	DO	0.11	mg/L
APCO-GSD-AP-MW-19H	8/26/2020 13:52	Depth to Water Detail	5.63	ft
APCO-GSD-AP-MW-19H	8/26/2020 13:52	Oxidation Reduction Potention	-1.76	mv
APCO-GSD-AP-MW-19H	8/26/2020 13:52	pH	6.38	pH
APCO-GSD-AP-MW-19H	8/26/2020 13:52	Temperature	18.99	C
APCO-GSD-AP-MW-19H	8/26/2020 13:52	Turbidity	8.97	NTU
APCO-GSD-AP-MW-19H	8/26/2020 13:57	Conductivity	321.9	uS/cm
APCO-GSD-AP-MW-19H	8/26/2020 13:57	DO	0.09	mg/L
APCO-GSD-AP-MW-19H	8/26/2020 13:57	Depth to Water Detail	5.63	ft
APCO-GSD-AP-MW-19H	8/26/2020 13:57	Oxidation Reduction Potention	-6.59	mv
APCO-GSD-AP-MW-19H	8/26/2020 13:57	pH	6.31	pH
APCO-GSD-AP-MW-19H	8/26/2020 13:57	Temperature	18.98	C
APCO-GSD-AP-MW-19H	8/26/2020 13:57	Turbidity	5.49	NTU
APCO-GSD-AP-MW-19H	8/26/2020 14:02	Conductivity	319.76	uS/cm
APCO-GSD-AP-MW-19H	8/26/2020 14:02	DO	0.08	mg/L
APCO-GSD-AP-MW-19H	8/26/2020 14:02	Depth to Water Detail	5.63	ft
APCO-GSD-AP-MW-19H	8/26/2020 14:02	Oxidation Reduction Potention	-13.42	mv
APCO-GSD-AP-MW-19H	8/26/2020 14:02	pH	6.34	pH
APCO-GSD-AP-MW-19H	8/26/2020 14:02	Temperature	18.9	C
APCO-GSD-AP-MW-19H	8/26/2020 14:02	Turbidity	5	NTU
APCO-GSD-AP-MW-19H	8/26/2020 14:07	Conductivity	319.69	uS/cm
APCO-GSD-AP-MW-19H	8/26/2020 14:07	DO	0.08	mg/L
APCO-GSD-AP-MW-19H	8/26/2020 14:07	Depth to Water Detail	5.63	ft
APCO-GSD-AP-MW-19H	8/26/2020 14:07	Oxidation Reduction Potention	-16.05	mv
APCO-GSD-AP-MW-19H	8/26/2020 14:07	pH	6.33	pH
APCO-GSD-AP-MW-19H	8/26/2020 14:07	Temperature	18.79	C
APCO-GSD-AP-MW-19H	8/26/2020 14:07	Turbidity	3.97	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-2	8/25/2020 12:46	Conductivity	527.61	uS/cm
APCO-GSD-AP-MW-2	8/25/2020 12:46	DO	0.51	mg/L
APCO-GSD-AP-MW-2	8/25/2020 12:46	Depth to Water Detail	13.84	ft
APCO-GSD-AP-MW-2	8/25/2020 12:46	Oxidation Reduction Potention	-68.83	mv
APCO-GSD-AP-MW-2	8/25/2020 12:46	pH	6.59	pH
APCO-GSD-AP-MW-2	8/25/2020 12:46	Temperature	20.26	C
APCO-GSD-AP-MW-2	8/25/2020 12:46	Turbidity	36.2	NTU
APCO-GSD-AP-MW-2	8/25/2020 12:51	Conductivity	521.54	uS/cm
APCO-GSD-AP-MW-2	8/25/2020 12:51	DO	0.25	mg/L
APCO-GSD-AP-MW-2	8/25/2020 12:51	Depth to Water Detail	13.84	ft
APCO-GSD-AP-MW-2	8/25/2020 12:51	Oxidation Reduction Potention	-70.76	mv
APCO-GSD-AP-MW-2	8/25/2020 12:51	pH	6.61	pH
APCO-GSD-AP-MW-2	8/25/2020 12:51	Temperature	20.2	C
APCO-GSD-AP-MW-2	8/25/2020 12:51	Turbidity	21.5	NTU
APCO-GSD-AP-MW-2	8/25/2020 12:56	Conductivity	522.45	uS/cm
APCO-GSD-AP-MW-2	8/25/2020 12:56	DO	0.19	mg/L
APCO-GSD-AP-MW-2	8/25/2020 12:56	Depth to Water Detail	13.84	ft
APCO-GSD-AP-MW-2	8/25/2020 12:56	Oxidation Reduction Potention	-71.95	mv
APCO-GSD-AP-MW-2	8/25/2020 12:56	pH	6.63	pH
APCO-GSD-AP-MW-2	8/25/2020 12:56	Temperature	20.21	C
APCO-GSD-AP-MW-2	8/25/2020 12:56	Turbidity	14.4	NTU
APCO-GSD-AP-MW-2	8/25/2020 13:01	Conductivity	517.78	uS/cm
APCO-GSD-AP-MW-2	8/25/2020 13:01	DO	0.16	mg/L
APCO-GSD-AP-MW-2	8/25/2020 13:01	Depth to Water Detail	13.84	ft
APCO-GSD-AP-MW-2	8/25/2020 13:01	Oxidation Reduction Potention	-73.55	mv
APCO-GSD-AP-MW-2	8/25/2020 13:01	pH	6.65	pH
APCO-GSD-AP-MW-2	8/25/2020 13:01	Temperature	20.19	C
APCO-GSD-AP-MW-2	8/25/2020 13:01	Turbidity	12.3	NTU
APCO-GSD-AP-MW-2	8/25/2020 13:06	Conductivity	519.53	uS/cm
APCO-GSD-AP-MW-2	8/25/2020 13:06	DO	0.15	mg/L
APCO-GSD-AP-MW-2	8/25/2020 13:06	Depth to Water Detail	13.84	ft
APCO-GSD-AP-MW-2	8/25/2020 13:06	Oxidation Reduction Potention	-73.6	mv
APCO-GSD-AP-MW-2	8/25/2020 13:06	pH	6.66	pH
APCO-GSD-AP-MW-2	8/25/2020 13:06	Temperature	20.22	C
APCO-GSD-AP-MW-2	8/25/2020 13:06	Turbidity	10.06	NTU
APCO-GSD-AP-MW-2	8/25/2020 13:11	Conductivity	515.56	uS/cm
APCO-GSD-AP-MW-2	8/25/2020 13:11	DO	0.14	mg/L
APCO-GSD-AP-MW-2	8/25/2020 13:11	Depth to Water Detail	13.84	ft
APCO-GSD-AP-MW-2	8/25/2020 13:11	Oxidation Reduction Potention	-73.16	mv
APCO-GSD-AP-MW-2	8/25/2020 13:11	pH	6.65	pH
APCO-GSD-AP-MW-2	8/25/2020 13:11	Temperature	20.21	C
APCO-GSD-AP-MW-2	8/25/2020 13:11	Turbidity	8.17	NTU
APCO-GSD-AP-MW-2	8/25/2020 13:16	Conductivity	513.57	uS/cm
APCO-GSD-AP-MW-2	8/25/2020 13:16	DO	0.14	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-2	8/25/2020 13:16	Depth to Water Detail	13.84	ft
APCO-GSD-AP-MW-2	8/25/2020 13:16	Oxidation Reduction Potention	-73.12	mv
APCO-GSD-AP-MW-2	8/25/2020 13:16	pH	6.65	pH
APCO-GSD-AP-MW-2	8/25/2020 13:16	Temperature	20.18	C
APCO-GSD-AP-MW-2	8/25/2020 13:16	Turbidity	6.91	NTU
APCO-GSD-AP-MW-2	8/25/2020 13:21	Conductivity	512.8	uS/cm
APCO-GSD-AP-MW-2	8/25/2020 13:21	DO	0.14	mg/L
APCO-GSD-AP-MW-2	8/25/2020 13:21	Depth to Water Detail	13.84	ft
APCO-GSD-AP-MW-2	8/25/2020 13:21	Oxidation Reduction Potention	-73.25	mv
APCO-GSD-AP-MW-2	8/25/2020 13:21	pH	6.65	pH
APCO-GSD-AP-MW-2	8/25/2020 13:21	Temperature	20.17	C
APCO-GSD-AP-MW-2	8/25/2020 13:21	Turbidity	5.8	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-2VA	8/25/2020 8:46	Conductivity	549.36	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 8:46	DO	0.73	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 8:46	Depth to Water Detail	14.17	ft
APCO-GSD-AP-MW-2VA	8/25/2020 8:46	Oxidation Reduction Potention	38.35	mv
APCO-GSD-AP-MW-2VA	8/25/2020 8:46	pH	8.09	pH
APCO-GSD-AP-MW-2VA	8/25/2020 8:46	Temperature	21.84	C
APCO-GSD-AP-MW-2VA	8/25/2020 8:46	Turbidity	8.62	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 8:51	Conductivity	549.09	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 8:51	DO	0.49	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 8:51	Depth to Water Detail	14.8	ft
APCO-GSD-AP-MW-2VA	8/25/2020 8:51	Oxidation Reduction Potention	-35.27	mv
APCO-GSD-AP-MW-2VA	8/25/2020 8:51	pH	8.19	pH
APCO-GSD-AP-MW-2VA	8/25/2020 8:51	Temperature	21.74	C
APCO-GSD-AP-MW-2VA	8/25/2020 8:51	Turbidity	6.82	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 8:56	Conductivity	545.8	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 8:56	DO	0.42	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 8:56	Depth to Water Detail	15.42	ft
APCO-GSD-AP-MW-2VA	8/25/2020 8:56	Oxidation Reduction Potention	-67.52	mv
APCO-GSD-AP-MW-2VA	8/25/2020 8:56	pH	8.22	pH
APCO-GSD-AP-MW-2VA	8/25/2020 8:56	Temperature	21.77	C
APCO-GSD-AP-MW-2VA	8/25/2020 8:56	Turbidity	5.92	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:01	Conductivity	545.79	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:01	DO	0.38	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:01	Depth to Water Detail	15.97	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:01	Oxidation Reduction Potention	-85.59	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:01	pH	8.25	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:01	Temperature	21.72	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:01	Turbidity	5.87	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:06	Conductivity	545.64	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:06	DO	0.37	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:06	Depth to Water Detail	16.56	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:06	Oxidation Reduction Potention	-96.16	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:06	pH	8.25	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:06	Temperature	21.55	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:06	Turbidity	5.15	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:11	Conductivity	543.3	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:11	DO	0.35	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:11	Depth to Water Detail	17.1	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:11	Oxidation Reduction Potention	-105.59	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:11	pH	8.28	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:11	Temperature	21.41	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:11	Turbidity	5.87	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:16	Conductivity	544.66	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:16	DO	0.34	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-2VA	8/25/2020 9:16	Depth to Water Detail	17.68	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:16	Oxidation Reduction Potention	-111.72	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:16	pH	8.28	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:16	Temperature	21.38	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:16	Turbidity	6.28	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:21	Conductivity	544.88	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:21	DO	0.34	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:21	Depth to Water Detail	18	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:21	Oxidation Reduction Potention	-117.19	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:21	pH	8.28	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:21	Temperature	21.31	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:21	Turbidity	5.49	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:26	Conductivity	541.53	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:26	DO	0.33	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:26	Depth to Water Detail	18.58	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:26	Oxidation Reduction Potention	-123.03	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:26	pH	8.3	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:26	Temperature	21.33	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:26	Turbidity	5.12	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:31	Conductivity	542.32	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:31	DO	0.33	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:31	Depth to Water Detail	18.91	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:31	Oxidation Reduction Potention	-126.47	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:31	pH	8.3	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:31	Temperature	21.23	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:31	Turbidity	6.19	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:36	Conductivity	541.36	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:36	DO	0.32	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:36	Depth to Water Detail	19.41	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:36	Oxidation Reduction Potention	-130.82	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:36	pH	8.32	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:36	Temperature	21.35	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:36	Turbidity	4.64	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:41	Conductivity	544.79	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:41	DO	0.31	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:41	Depth to Water Detail	19.79	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:41	Oxidation Reduction Potention	-133.98	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:41	pH	8.33	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:41	Temperature	21.15	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:41	Turbidity	4.54	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:46	Conductivity	543.05	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:46	DO	0.31	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:46	Depth to Water Detail	20.03	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:46	Oxidation Reduction Potention	-135.44	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-2VA	8/25/2020 9:46	pH	8.31	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:46	Temperature	21.03	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:46	Turbidity	6.22	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:51	Conductivity	544.05	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:51	DO	0.3	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:51	Depth to Water Detail	20.45	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:51	Oxidation Reduction Potention	-138.79	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:51	pH	8.34	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:51	Temperature	20.97	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:51	Turbidity	5.18	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 9:56	Conductivity	539.55	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 9:56	DO	0.3	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 9:56	Depth to Water Detail	20.92	ft
APCO-GSD-AP-MW-2VA	8/25/2020 9:56	Oxidation Reduction Potention	-140.3	mv
APCO-GSD-AP-MW-2VA	8/25/2020 9:56	pH	8.33	pH
APCO-GSD-AP-MW-2VA	8/25/2020 9:56	Temperature	20.97	C
APCO-GSD-AP-MW-2VA	8/25/2020 9:56	Turbidity	5.27	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:01	Conductivity	539.79	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:01	DO	0.29	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:01	Depth to Water Detail	21.36	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:01	Oxidation Reduction Potention	-142.88	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:01	pH	8.35	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:01	Temperature	21.01	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:01	Turbidity	4.14	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:06	Conductivity	536.92	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:06	DO	0.29	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:06	Depth to Water Detail	21.68	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:06	Oxidation Reduction Potention	-145.43	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:06	pH	8.36	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:06	Temperature	20.84	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:06	Turbidity	3.95	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:11	Conductivity	540.71	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:11	DO	0.29	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:11	Depth to Water Detail	21.99	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:11	Oxidation Reduction Potention	-146.15	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:11	pH	8.34	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:11	Temperature	20.84	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:11	Turbidity	4.58	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:16	Conductivity	537.61	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:16	DO	0.28	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:16	Depth to Water Detail	22.31	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:16	Oxidation Reduction Potention	-149.28	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:16	pH	8.38	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:16	Temperature	20.87	C

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-2VA	8/25/2020 10:16	Turbidity	6.22	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:21	Conductivity	542.67	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:21	DO	0.28	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:21	Depth to Water Detail	22.63	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:21	Oxidation Reduction Potention	-150.04	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:21	pH	8.37	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:21	Temperature	21	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:21	Turbidity	5.76	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:26	Conductivity	542.92	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:26	DO	0.28	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:26	Depth to Water Detail	22.92	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:26	Oxidation Reduction Potention	-150.49	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:26	pH	8.35	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:26	Temperature	20.93	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:26	Turbidity	5.23	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:31	Conductivity	537.26	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:31	DO	0.28	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:31	Depth to Water Detail	23.31	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:31	Oxidation Reduction Potention	-152.97	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:31	pH	8.38	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:31	Temperature	20.8	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:31	Turbidity	4.61	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:36	Conductivity	539.8	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:36	DO	0.28	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:36	Depth to Water Detail	23.59	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:36	Oxidation Reduction Potention	-154	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:36	pH	8.38	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:36	Temperature	21.13	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:36	Turbidity	5.63	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:41	Conductivity	537.93	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:41	DO	0.28	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:41	Depth to Water Detail	23.81	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:41	Oxidation Reduction Potention	-155.6	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:41	pH	8.4	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:41	Temperature	21.13	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:41	Turbidity	5.12	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:46	Conductivity	538.7	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:46	DO	0.28	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:46	Depth to Water Detail	24.06	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:46	Oxidation Reduction Potention	-156.58	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:46	pH	8.4	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:46	Temperature	20.98	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:46	Turbidity	4.89	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:51	Conductivity	535.65	uS/cm

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-2VA	8/25/2020 10:51	DO	0.27	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:51	Depth to Water Detail	24.31	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:51	Oxidation Reduction Potention	-156.97	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:51	pH	8.39	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:51	Temperature	20.95	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:51	Turbidity	5.08	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 10:56	Conductivity	534.73	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 10:56	DO	0.27	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 10:56	Depth to Water Detail	24.56	ft
APCO-GSD-AP-MW-2VA	8/25/2020 10:56	Oxidation Reduction Potention	-158.77	mv
APCO-GSD-AP-MW-2VA	8/25/2020 10:56	pH	8.41	pH
APCO-GSD-AP-MW-2VA	8/25/2020 10:56	Temperature	21.07	C
APCO-GSD-AP-MW-2VA	8/25/2020 10:56	Turbidity	4.27	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:01	Conductivity	539.34	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:01	DO	0.27	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:01	Depth to Water Detail	24.77	ft
APCO-GSD-AP-MW-2VA	8/25/2020 11:01	Oxidation Reduction Potention	-158.9	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:01	pH	8.4	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:01	Temperature	20.98	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:01	Turbidity	3.27	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:06	Conductivity	539.36	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:06	DO	0.26	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:06	Depth to Water Detail	25.03	ft
APCO-GSD-AP-MW-2VA	8/25/2020 11:06	Oxidation Reduction Potention	-159.57	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:06	pH	8.4	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:06	Temperature	20.97	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:06	Turbidity	3.08	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:11	Conductivity	536.92	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:11	DO	0.26	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:11	Depth to Water Detail	25.23	ft
APCO-GSD-AP-MW-2VA	8/25/2020 11:11	Oxidation Reduction Potention	-160.71	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:11	pH	8.41	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:11	Temperature	21.07	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:11	Turbidity	3.15	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:16	Conductivity	537.33	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:16	DO	0.26	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:16	Depth to Water Detail	25.46	ft
APCO-GSD-AP-MW-2VA	8/25/2020 11:16	Oxidation Reduction Potention	-161.22	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:16	pH	8.41	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:16	Temperature	21.09	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:16	Turbidity	3.21	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:21	Conductivity	537.09	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:21	DO	0.27	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:21	Depth to Water Detail	25.65	ft

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-2VA	8/25/2020 11:21	Oxidation Reduction Potention	-162.04	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:21	pH	8.42	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:21	Temperature	21.06	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:21	Turbidity	3.78	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:26	Conductivity	538.54	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:26	DO	0.26	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:26	Depth to Water Detail	25.91	ft
APCO-GSD-AP-MW-2VA	8/25/2020 11:26	Oxidation Reduction Potention	-162.57	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:26	pH	8.42	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:26	Temperature	21.16	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:26	Turbidity	3.57	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:31	Conductivity	536.55	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:31	DO	0.27	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:31	Depth to Water Detail	26.09	ft
APCO-GSD-AP-MW-2VA	8/25/2020 11:31	Oxidation Reduction Potention	-161.65	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:31	pH	8.4	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:31	Temperature	21.22	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:31	Turbidity	3.62	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:36	Conductivity	537.35	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:36	DO	0.27	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:36	Depth to Water Detail	26.23	ft
APCO-GSD-AP-MW-2VA	8/25/2020 11:36	Oxidation Reduction Potention	-163.67	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:36	pH	8.43	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:36	Temperature	21.14	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:36	Turbidity	3.12	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:41	Conductivity	535.62	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:41	DO	0.27	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:41	Depth to Water Detail	26.4	ft
APCO-GSD-AP-MW-2VA	8/25/2020 11:41	Oxidation Reduction Potention	-163.29	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:41	pH	8.42	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:41	Temperature	21.03	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:41	Turbidity	3.41	NTU
APCO-GSD-AP-MW-2VA	8/25/2020 11:46	Conductivity	534.26	uS/cm
APCO-GSD-AP-MW-2VA	8/25/2020 11:46	DO	0.26	mg/L
APCO-GSD-AP-MW-2VA	8/25/2020 11:46	Depth to Water Detail	26.51	ft
APCO-GSD-AP-MW-2VA	8/25/2020 11:46	Oxidation Reduction Potention	-164.54	mv
APCO-GSD-AP-MW-2VA	8/25/2020 11:46	pH	8.43	pH
APCO-GSD-AP-MW-2VA	8/25/2020 11:46	Temperature	21.07	C
APCO-GSD-AP-MW-2VA	8/25/2020 11:46	Turbidity	3.28	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-3	8/26/2020 8:10	Conductivity	628.07	uS/cm
APCO-GSD-AP-MW-3	8/26/2020 8:10	DO	0.79	mg/L
APCO-GSD-AP-MW-3	8/26/2020 8:10	Depth to Water Detail	13.94	ft
APCO-GSD-AP-MW-3	8/26/2020 8:10	Oxidation Reduction Potention	150.98	mv
APCO-GSD-AP-MW-3	8/26/2020 8:10	pH	5.82	pH
APCO-GSD-AP-MW-3	8/26/2020 8:10	Temperature	20.73	C
APCO-GSD-AP-MW-3	8/26/2020 8:10	Turbidity	2.51	NTU
APCO-GSD-AP-MW-3	8/26/2020 8:15	Conductivity	606.94	uS/cm
APCO-GSD-AP-MW-3	8/26/2020 8:15	DO	0.37	mg/L
APCO-GSD-AP-MW-3	8/26/2020 8:15	Depth to Water Detail	13.94	ft
APCO-GSD-AP-MW-3	8/26/2020 8:15	Oxidation Reduction Potention	146.87	mv
APCO-GSD-AP-MW-3	8/26/2020 8:15	pH	5.85	pH
APCO-GSD-AP-MW-3	8/26/2020 8:15	Temperature	20.77	C
APCO-GSD-AP-MW-3	8/26/2020 8:15	Turbidity	2.44	NTU
APCO-GSD-AP-MW-3	8/26/2020 8:20	Conductivity	628.16	uS/cm
APCO-GSD-AP-MW-3	8/26/2020 8:20	DO	0.27	mg/L
APCO-GSD-AP-MW-3	8/26/2020 8:20	Depth to Water Detail	13.94	ft
APCO-GSD-AP-MW-3	8/26/2020 8:20	Oxidation Reduction Potention	144.21	mv
APCO-GSD-AP-MW-3	8/26/2020 8:20	pH	5.87	pH
APCO-GSD-AP-MW-3	8/26/2020 8:20	Temperature	20.75	C
APCO-GSD-AP-MW-3	8/26/2020 8:20	Turbidity	1.94	NTU
APCO-GSD-AP-MW-3	8/26/2020 8:25	Conductivity	628.3	uS/cm
APCO-GSD-AP-MW-3	8/26/2020 8:25	DO	0.22	mg/L
APCO-GSD-AP-MW-3	8/26/2020 8:25	Depth to Water Detail	13.94	ft
APCO-GSD-AP-MW-3	8/26/2020 8:25	Oxidation Reduction Potention	142.16	mv
APCO-GSD-AP-MW-3	8/26/2020 8:25	pH	5.87	pH
APCO-GSD-AP-MW-3	8/26/2020 8:25	Temperature	20.74	C
APCO-GSD-AP-MW-3	8/26/2020 8:25	Turbidity	1.83	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-4	8/26/2020 9:12	Conductivity	337.23	uS/cm
APCO-GSD-AP-MW-4	8/26/2020 9:12	DO	0.67	mg/L
APCO-GSD-AP-MW-4	8/26/2020 9:12	Depth to Water Detail	7.63	ft
APCO-GSD-AP-MW-4	8/26/2020 9:12	Oxidation Reduction Potention	-71.13	mv
APCO-GSD-AP-MW-4	8/26/2020 9:12	pH	6.64	pH
APCO-GSD-AP-MW-4	8/26/2020 9:12	Temperature	20.26	C
APCO-GSD-AP-MW-4	8/26/2020 9:12	Turbidity	10.36	NTU
APCO-GSD-AP-MW-4	8/26/2020 9:17	Conductivity	337.13	uS/cm
APCO-GSD-AP-MW-4	8/26/2020 9:17	DO	0.31	mg/L
APCO-GSD-AP-MW-4	8/26/2020 9:17	Depth to Water Detail	7.63	ft
APCO-GSD-AP-MW-4	8/26/2020 9:17	Oxidation Reduction Potention	-83.8	mv
APCO-GSD-AP-MW-4	8/26/2020 9:17	pH	6.67	pH
APCO-GSD-AP-MW-4	8/26/2020 9:17	Temperature	20.23	C
APCO-GSD-AP-MW-4	8/26/2020 9:17	Turbidity	7.1	NTU
APCO-GSD-AP-MW-4	8/26/2020 9:22	Conductivity	336.61	uS/cm
APCO-GSD-AP-MW-4	8/26/2020 9:22	DO	0.22	mg/L
APCO-GSD-AP-MW-4	8/26/2020 9:22	Depth to Water Detail	7.63	ft
APCO-GSD-AP-MW-4	8/26/2020 9:22	Oxidation Reduction Potention	-88.29	mv
APCO-GSD-AP-MW-4	8/26/2020 9:22	pH	6.65	pH
APCO-GSD-AP-MW-4	8/26/2020 9:22	Temperature	20.22	C
APCO-GSD-AP-MW-4	8/26/2020 9:22	Turbidity	5.5	NTU
APCO-GSD-AP-MW-4	8/26/2020 9:27	Conductivity	336.17	uS/cm
APCO-GSD-AP-MW-4	8/26/2020 9:27	DO	0.18	mg/L
APCO-GSD-AP-MW-4	8/26/2020 9:27	Depth to Water Detail	7.63	ft
APCO-GSD-AP-MW-4	8/26/2020 9:27	Oxidation Reduction Potention	-92.61	mv
APCO-GSD-AP-MW-4	8/26/2020 9:27	pH	6.68	pH
APCO-GSD-AP-MW-4	8/26/2020 9:27	Temperature	20.2	C
APCO-GSD-AP-MW-4	8/26/2020 9:27	Turbidity	4.78	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-4V	8/26/2020 10:01	Conductivity	354.3	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:01	DO	0.55	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:01	Depth to Water Detail	11.55	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:01	Oxidation Reduction Potention	-128.64	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:01	pH	7.73	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:01	Temperature	19.89	C
APCO-GSD-AP-MW-4V	8/26/2020 10:01	Turbidity	21.4	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:06	Conductivity	358.19	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:06	DO	0.26	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:06	Depth to Water Detail	13.56	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:06	Oxidation Reduction Potention	-143.23	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:06	pH	7.76	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:06	Temperature	19.83	C
APCO-GSD-AP-MW-4V	8/26/2020 10:06	Turbidity	16	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:11	Conductivity	358.57	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:11	DO	0.2	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:11	Depth to Water Detail	15.38	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:11	Oxidation Reduction Potention	-152.87	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:11	pH	7.81	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:11	Temperature	19.61	C
APCO-GSD-AP-MW-4V	8/26/2020 10:11	Turbidity	12.9	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:16	Conductivity	359.92	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:16	DO	0.17	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:16	Depth to Water Detail	16.33	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:16	Oxidation Reduction Potention	-159.19	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:16	pH	7.83	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:16	Temperature	19.52	C
APCO-GSD-AP-MW-4V	8/26/2020 10:16	Turbidity	13.3	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:21	Conductivity	360	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:21	DO	0.15	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:21	Depth to Water Detail	17.15	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:21	Oxidation Reduction Potention	-163.27	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:21	pH	7.85	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:21	Temperature	19.49	C
APCO-GSD-AP-MW-4V	8/26/2020 10:21	Turbidity	9.92	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:26	Conductivity	360.29	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:26	DO	0.14	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:26	Depth to Water Detail	18.1	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:26	Oxidation Reduction Potention	-165.97	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:26	pH	7.86	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:26	Temperature	19.43	C
APCO-GSD-AP-MW-4V	8/26/2020 10:26	Turbidity	9.4	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:31	Conductivity	360.36	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:31	DO	0.13	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-4V	8/26/2020 10:31	Depth to Water Detail	18.48	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:31	Oxidation Reduction Potention	-165.9	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:31	pH	7.83	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:31	Temperature	19.43	C
APCO-GSD-AP-MW-4V	8/26/2020 10:31	Turbidity	8.43	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:36	Conductivity	361.66	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:36	DO	0.13	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:36	Depth to Water Detail	19	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:36	Oxidation Reduction Potention	-166.73	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:36	pH	7.83	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:36	Temperature	19.36	C
APCO-GSD-AP-MW-4V	8/26/2020 10:36	Turbidity	8.41	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:41	Conductivity	360.47	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:41	DO	0.12	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:41	Depth to Water Detail	19.33	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:41	Oxidation Reduction Potention	-168.2	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:41	pH	7.84	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:41	Temperature	19.39	C
APCO-GSD-AP-MW-4V	8/26/2020 10:41	Turbidity	5.93	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:46	Conductivity	360.61	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:46	DO	0.11	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:46	Depth to Water Detail	19.6	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:46	Oxidation Reduction Potention	-169.49	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:46	pH	7.86	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:46	Temperature	19.3	C
APCO-GSD-AP-MW-4V	8/26/2020 10:46	Turbidity	6.1	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:51	Conductivity	360.17	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:51	DO	0.11	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:51	Depth to Water Detail	19.87	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:51	Oxidation Reduction Potention	-170.2	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:51	pH	7.87	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:51	Temperature	19.24	C
APCO-GSD-AP-MW-4V	8/26/2020 10:51	Turbidity	6.58	NTU
APCO-GSD-AP-MW-4V	8/26/2020 10:56	Conductivity	359.34	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 10:56	DO	0.1	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 10:56	Depth to Water Detail	20.03	ft
APCO-GSD-AP-MW-4V	8/26/2020 10:56	Oxidation Reduction Potention	-170.69	mv
APCO-GSD-AP-MW-4V	8/26/2020 10:56	pH	7.87	pH
APCO-GSD-AP-MW-4V	8/26/2020 10:56	Temperature	19.27	C
APCO-GSD-AP-MW-4V	8/26/2020 10:56	Turbidity	5.23	NTU
APCO-GSD-AP-MW-4V	8/26/2020 11:01	Conductivity	359.29	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 11:01	DO	0.1	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 11:01	Depth to Water Detail	20.18	ft
APCO-GSD-AP-MW-4V	8/26/2020 11:01	Oxidation Reduction Potention	-170.94	mv

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-4V	8/26/2020 11:01	pH	7.88	pH
APCO-GSD-AP-MW-4V	8/26/2020 11:01	Temperature	19.21	C
APCO-GSD-AP-MW-4V	8/26/2020 11:01	Turbidity	5.19	NTU
APCO-GSD-AP-MW-4V	8/26/2020 11:06	Conductivity	359.83	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 11:06	DO	0.1	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 11:06	Depth to Water Detail	20.34	ft
APCO-GSD-AP-MW-4V	8/26/2020 11:06	Oxidation Reduction Potention	-168.65	mv
APCO-GSD-AP-MW-4V	8/26/2020 11:06	pH	7.83	pH
APCO-GSD-AP-MW-4V	8/26/2020 11:06	Temperature	19.26	C
APCO-GSD-AP-MW-4V	8/26/2020 11:06	Turbidity	5.07	NTU
APCO-GSD-AP-MW-4V	8/26/2020 11:11	Conductivity	360.35	uS/cm
APCO-GSD-AP-MW-4V	8/26/2020 11:11	DO	0.1	mg/L
APCO-GSD-AP-MW-4V	8/26/2020 11:11	Depth to Water Detail	20.45	ft
APCO-GSD-AP-MW-4V	8/26/2020 11:11	Oxidation Reduction Potention	-168.75	mv
APCO-GSD-AP-MW-4V	8/26/2020 11:11	pH	7.83	pH
APCO-GSD-AP-MW-4V	8/26/2020 11:11	Temperature	19.26	C
APCO-GSD-AP-MW-4V	8/26/2020 11:11	Turbidity	4.95	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-5	8/24/2020 15:13	Conductivity	302.16	uS/cm
APCO-GSD-AP-MW-5	8/24/2020 15:13	DO	0.94	mg/L
APCO-GSD-AP-MW-5	8/24/2020 15:13	Depth to Water Detail	5.96	ft
APCO-GSD-AP-MW-5	8/24/2020 15:13	Oxidation Reduction Potention	103.82	mv
APCO-GSD-AP-MW-5	8/24/2020 15:13	pH	6.14	pH
APCO-GSD-AP-MW-5	8/24/2020 15:13	Temperature	20.88	C
APCO-GSD-AP-MW-5	8/24/2020 15:13	Turbidity	10	NTU
APCO-GSD-AP-MW-5	8/24/2020 15:18	Conductivity	282.72	uS/cm
APCO-GSD-AP-MW-5	8/24/2020 15:18	DO	0.39	mg/L
APCO-GSD-AP-MW-5	8/24/2020 15:18	Depth to Water Detail	5.96	ft
APCO-GSD-AP-MW-5	8/24/2020 15:18	Oxidation Reduction Potention	108.16	mv
APCO-GSD-AP-MW-5	8/24/2020 15:18	pH	6.07	pH
APCO-GSD-AP-MW-5	8/24/2020 15:18	Temperature	20.99	C
APCO-GSD-AP-MW-5	8/24/2020 15:18	Turbidity	27.3	NTU
APCO-GSD-AP-MW-5	8/24/2020 15:23	Conductivity	283.62	uS/cm
APCO-GSD-AP-MW-5	8/24/2020 15:23	DO	0.27	mg/L
APCO-GSD-AP-MW-5	8/24/2020 15:23	Depth to Water Detail	5.96	ft
APCO-GSD-AP-MW-5	8/24/2020 15:23	Oxidation Reduction Potention	107.62	mv
APCO-GSD-AP-MW-5	8/24/2020 15:23	pH	6.09	pH
APCO-GSD-AP-MW-5	8/24/2020 15:23	Temperature	20.97	C
APCO-GSD-AP-MW-5	8/24/2020 15:23	Turbidity	11.4	NTU
APCO-GSD-AP-MW-5	8/24/2020 15:28	Conductivity	285.13	uS/cm
APCO-GSD-AP-MW-5	8/24/2020 15:28	DO	0.21	mg/L
APCO-GSD-AP-MW-5	8/24/2020 15:28	Depth to Water Detail	5.96	ft
APCO-GSD-AP-MW-5	8/24/2020 15:28	Oxidation Reduction Potention	106.29	mv
APCO-GSD-AP-MW-5	8/24/2020 15:28	pH	6.11	pH
APCO-GSD-AP-MW-5	8/24/2020 15:28	Temperature	20.96	C
APCO-GSD-AP-MW-5	8/24/2020 15:28	Turbidity	9.27	NTU
APCO-GSD-AP-MW-5	8/24/2020 15:33	Conductivity	282.62	uS/cm
APCO-GSD-AP-MW-5	8/24/2020 15:33	DO	0.18	mg/L
APCO-GSD-AP-MW-5	8/24/2020 15:33	Depth to Water Detail	5.96	ft
APCO-GSD-AP-MW-5	8/24/2020 15:33	Oxidation Reduction Potention	105.93	mv
APCO-GSD-AP-MW-5	8/24/2020 15:33	pH	6.1	pH
APCO-GSD-AP-MW-5	8/24/2020 15:33	Temperature	20.98	C
APCO-GSD-AP-MW-5	8/24/2020 15:33	Turbidity	6.63	NTU
APCO-GSD-AP-MW-5	8/24/2020 15:38	Conductivity	284.43	uS/cm
APCO-GSD-AP-MW-5	8/24/2020 15:38	DO	0.16	mg/L
APCO-GSD-AP-MW-5	8/24/2020 15:38	Depth to Water Detail	5.96	ft
APCO-GSD-AP-MW-5	8/24/2020 15:38	Oxidation Reduction Potention	104.95	mv
APCO-GSD-AP-MW-5	8/24/2020 15:38	pH	6.11	pH
APCO-GSD-AP-MW-5	8/24/2020 15:38	Temperature	20.94	C
APCO-GSD-AP-MW-5	8/24/2020 15:38	Turbidity	5.36	NTU
APCO-GSD-AP-MW-5	8/24/2020 15:43	Conductivity	284.81	uS/cm
APCO-GSD-AP-MW-5	8/24/2020 15:43	DO	0.15	mg/L

Alabama Power Company
Plant Gadsden Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-5	8/24/2020 15:43	Depth to Water Detail	5.96	ft
APCO-GSD-AP-MW-5	8/24/2020 15:43	Oxidation Reduction Potention	104.39	mv
APCO-GSD-AP-MW-5	8/24/2020 15:43	pH	6.11	pH
APCO-GSD-AP-MW-5	8/24/2020 15:43	Temperature	20.95	C
APCO-GSD-AP-MW-5	8/24/2020 15:43	Turbidity	5.47	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-6	8/26/2020 12:42	Conductivity	151.91	uS/cm
APCO-GSD-AP-MW-6	8/26/2020 12:42	DO	0.9	mg/L
APCO-GSD-AP-MW-6	8/26/2020 12:42	Depth to Water Detail	5.06	ft
APCO-GSD-AP-MW-6	8/26/2020 12:42	Oxidation Reduction Potention	55.82	mv
APCO-GSD-AP-MW-6	8/26/2020 12:42	pH	5.89	pH
APCO-GSD-AP-MW-6	8/26/2020 12:42	Temperature	19.85	C
APCO-GSD-AP-MW-6	8/26/2020 12:42	Turbidity	8.44	NTU
APCO-GSD-AP-MW-6	8/26/2020 12:47	Conductivity	151.34	uS/cm
APCO-GSD-AP-MW-6	8/26/2020 12:47	DO	0.34	mg/L
APCO-GSD-AP-MW-6	8/26/2020 12:47	Depth to Water Detail	5.06	ft
APCO-GSD-AP-MW-6	8/26/2020 12:47	Oxidation Reduction Potention	60.72	mv
APCO-GSD-AP-MW-6	8/26/2020 12:47	pH	5.93	pH
APCO-GSD-AP-MW-6	8/26/2020 12:47	Temperature	19.86	C
APCO-GSD-AP-MW-6	8/26/2020 12:47	Turbidity	3.92	NTU
APCO-GSD-AP-MW-6	8/26/2020 12:52	Conductivity	150.45	uS/cm
APCO-GSD-AP-MW-6	8/26/2020 12:52	DO	0.23	mg/L
APCO-GSD-AP-MW-6	8/26/2020 12:52	Depth to Water Detail	5.06	ft
APCO-GSD-AP-MW-6	8/26/2020 12:52	Oxidation Reduction Potention	64.69	mv
APCO-GSD-AP-MW-6	8/26/2020 12:52	pH	5.95	pH
APCO-GSD-AP-MW-6	8/26/2020 12:52	Temperature	19.79	C
APCO-GSD-AP-MW-6	8/26/2020 12:52	Turbidity	3.03	NTU
APCO-GSD-AP-MW-6	8/26/2020 12:57	Conductivity	149.86	uS/cm
APCO-GSD-AP-MW-6	8/26/2020 12:57	DO	0.18	mg/L
APCO-GSD-AP-MW-6	8/26/2020 12:57	Depth to Water Detail	5.06	ft
APCO-GSD-AP-MW-6	8/26/2020 12:57	Oxidation Reduction Potention	68.47	mv
APCO-GSD-AP-MW-6	8/26/2020 12:57	pH	5.96	pH
APCO-GSD-AP-MW-6	8/26/2020 12:57	Temperature	19.84	C
APCO-GSD-AP-MW-6	8/26/2020 12:57	Turbidity	2.74	NTU

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Plant Gadsden Ash Pond

WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-10	8/26/2020 13:34	Conductivity	304.7	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 13:34	DO	0.84	mg/L
APCO-GSD-AP-MW-10	8/26/2020 13:34	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 13:34	Oxidation Reduction Potention	-90.27	mv
APCO-GSD-AP-MW-10	8/26/2020 13:34	pH	6.53	pH
APCO-GSD-AP-MW-10	8/26/2020 13:34	Temperature	20.09	C
APCO-GSD-AP-MW-10	8/26/2020 13:34	Turbidity	54.4	NTU
APCO-GSD-AP-MW-10	8/26/2020 13:39	Conductivity	303.87	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 13:39	DO	0.36	mg/L
APCO-GSD-AP-MW-10	8/26/2020 13:39	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 13:39	Oxidation Reduction Potention	-105.69	mv
APCO-GSD-AP-MW-10	8/26/2020 13:39	pH	6.62	pH
APCO-GSD-AP-MW-10	8/26/2020 13:39	Temperature	20.18	C
APCO-GSD-AP-MW-10	8/26/2020 13:39	Turbidity	42.2	NTU
APCO-GSD-AP-MW-10	8/26/2020 13:44	Conductivity	303.23	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 13:44	DO	0.25	mg/L
APCO-GSD-AP-MW-10	8/26/2020 13:44	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 13:44	Oxidation Reduction Potention	-112.06	mv
APCO-GSD-AP-MW-10	8/26/2020 13:44	pH	6.65	pH
APCO-GSD-AP-MW-10	8/26/2020 13:44	Temperature	20.14	C
APCO-GSD-AP-MW-10	8/26/2020 13:44	Turbidity	32.7	NTU
APCO-GSD-AP-MW-10	8/26/2020 13:49	Conductivity	302.9	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 13:49	DO	0.2	mg/L
APCO-GSD-AP-MW-10	8/26/2020 13:49	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 13:49	Oxidation Reduction Potention	-116.14	mv
APCO-GSD-AP-MW-10	8/26/2020 13:49	pH	6.68	pH
APCO-GSD-AP-MW-10	8/26/2020 13:49	Temperature	20.2	C
APCO-GSD-AP-MW-10	8/26/2020 13:49	Turbidity	22.7	NTU
APCO-GSD-AP-MW-10	8/26/2020 13:54	Conductivity	302.97	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 13:54	DO	0.18	mg/L
APCO-GSD-AP-MW-10	8/26/2020 13:54	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 13:54	Oxidation Reduction Potention	-119.26	mv
APCO-GSD-AP-MW-10	8/26/2020 13:54	pH	6.71	pH
APCO-GSD-AP-MW-10	8/26/2020 13:54	Temperature	20.06	C
APCO-GSD-AP-MW-10	8/26/2020 13:54	Turbidity	17.7	NTU
APCO-GSD-AP-MW-10	8/26/2020 13:59	Conductivity	302.77	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 13:59	DO	0.16	mg/L
APCO-GSD-AP-MW-10	8/26/2020 13:59	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 13:59	Oxidation Reduction Potention	-121.42	mv
APCO-GSD-AP-MW-10	8/26/2020 13:59	pH	6.72	pH
APCO-GSD-AP-MW-10	8/26/2020 13:59	Temperature	20.12	C
APCO-GSD-AP-MW-10	8/26/2020 13:59	Turbidity	15.4	NTU
APCO-GSD-AP-MW-10	8/26/2020 14:04	Conductivity	302.3	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 14:04	DO	0.14	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-10	8/26/2020 14:04	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 14:04	Oxidation Reduction Potention	-122.93	mv
APCO-GSD-AP-MW-10	8/26/2020 14:04	pH	6.73	pH
APCO-GSD-AP-MW-10	8/26/2020 14:04	Temperature	20.07	C
APCO-GSD-AP-MW-10	8/26/2020 14:04	Turbidity	11.7	NTU
APCO-GSD-AP-MW-10	8/26/2020 14:09	Conductivity	302.79	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 14:09	DO	0.13	mg/L
APCO-GSD-AP-MW-10	8/26/2020 14:09	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 14:09	Oxidation Reduction Potention	-121.67	mv
APCO-GSD-AP-MW-10	8/26/2020 14:09	pH	6.7	pH
APCO-GSD-AP-MW-10	8/26/2020 14:09	Temperature	20.16	C
APCO-GSD-AP-MW-10	8/26/2020 14:09	Turbidity	10.23	NTU
APCO-GSD-AP-MW-10	8/26/2020 14:14	Conductivity	303.16	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 14:14	DO	0.12	mg/L
APCO-GSD-AP-MW-10	8/26/2020 14:14	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 14:14	Oxidation Reduction Potention	-122.41	mv
APCO-GSD-AP-MW-10	8/26/2020 14:14	pH	6.7	pH
APCO-GSD-AP-MW-10	8/26/2020 14:14	Temperature	20.18	C
APCO-GSD-AP-MW-10	8/26/2020 14:14	Turbidity	8.87	NTU
APCO-GSD-AP-MW-10	8/26/2020 14:19	Conductivity	302.47	uS/cm
APCO-GSD-AP-MW-10	8/26/2020 14:19	DO	0.12	mg/L
APCO-GSD-AP-MW-10	8/26/2020 14:19	Depth to Water Detail	21.72	ft
APCO-GSD-AP-MW-10	8/26/2020 14:19	Oxidation Reduction Potention	-124.35	mv
APCO-GSD-AP-MW-10	8/26/2020 14:19	pH	6.73	pH
APCO-GSD-AP-MW-10	8/26/2020 14:19	Temperature	19.96	C
APCO-GSD-AP-MW-10	8/26/2020 14:19	Turbidity	7.1	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-MW-20H	8/26/2020 11:48	Conductivity	452.67	uS/cm
APCO-GSD-AP-MW-20H	8/26/2020 11:48	DO	0.61	mg/L
APCO-GSD-AP-MW-20H	8/26/2020 11:48	Depth to Water Detail	3.72	ft
APCO-GSD-AP-MW-20H	8/26/2020 11:48	Oxidation Reduction Potention	-6.02	mv
APCO-GSD-AP-MW-20H	8/26/2020 11:48	pH	6.35	pH
APCO-GSD-AP-MW-20H	8/26/2020 11:48	Temperature	19.87	C
APCO-GSD-AP-MW-20H	8/26/2020 11:48	Turbidity	11.1	NTU
APCO-GSD-AP-MW-20H	8/26/2020 11:53	Conductivity	450.03	uS/cm
APCO-GSD-AP-MW-20H	8/26/2020 11:53	DO	0.29	mg/L
APCO-GSD-AP-MW-20H	8/26/2020 11:53	Depth to Water Detail	3.72	ft
APCO-GSD-AP-MW-20H	8/26/2020 11:53	Oxidation Reduction Potention	-3.41	mv
APCO-GSD-AP-MW-20H	8/26/2020 11:53	pH	6.35	pH
APCO-GSD-AP-MW-20H	8/26/2020 11:53	Temperature	19.73	C
APCO-GSD-AP-MW-20H	8/26/2020 11:53	Turbidity	12.9	NTU
APCO-GSD-AP-MW-20H	8/26/2020 11:58	Conductivity	448.4	uS/cm
APCO-GSD-AP-MW-20H	8/26/2020 11:58	DO	0.21	mg/L
APCO-GSD-AP-MW-20H	8/26/2020 11:58	Depth to Water Detail	3.72	ft
APCO-GSD-AP-MW-20H	8/26/2020 11:58	Oxidation Reduction Potention	-1.75	mv
APCO-GSD-AP-MW-20H	8/26/2020 11:58	pH	6.35	pH
APCO-GSD-AP-MW-20H	8/26/2020 11:58	Temperature	19.69	C
APCO-GSD-AP-MW-20H	8/26/2020 11:58	Turbidity	9.52	NTU
APCO-GSD-AP-MW-20H	8/26/2020 12:03	Conductivity	447.72	uS/cm
APCO-GSD-AP-MW-20H	8/26/2020 12:03	DO	0.17	mg/L
APCO-GSD-AP-MW-20H	8/26/2020 12:03	Depth to Water Detail	3.72	ft
APCO-GSD-AP-MW-20H	8/26/2020 12:03	Oxidation Reduction Potention	-1.11	mv
APCO-GSD-AP-MW-20H	8/26/2020 12:03	pH	6.36	pH
APCO-GSD-AP-MW-20H	8/26/2020 12:03	Temperature	19.77	C
APCO-GSD-AP-MW-20H	8/26/2020 12:03	Turbidity	7.86	NTU
APCO-GSD-AP-MW-20H	8/26/2020 12:08	Conductivity	446.93	uS/cm
APCO-GSD-AP-MW-20H	8/26/2020 12:08	DO	0.15	mg/L
APCO-GSD-AP-MW-20H	8/26/2020 12:08	Depth to Water Detail	3.72	ft
APCO-GSD-AP-MW-20H	8/26/2020 12:08	Oxidation Reduction Potention	-0.98	mv
APCO-GSD-AP-MW-20H	8/26/2020 12:08	pH	6.36	pH
APCO-GSD-AP-MW-20H	8/26/2020 12:08	Temperature	19.76	C
APCO-GSD-AP-MW-20H	8/26/2020 12:08	Turbidity	5.79	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-PZ-1	8/24/2020 10:21	Conductivity	162.03	uS/cm
APCO-GSD-AP-PZ-1	8/24/2020 10:21	DO	1.16	mg/L
APCO-GSD-AP-PZ-1	8/24/2020 10:21	Depth to Water Detail	10.91	ft
APCO-GSD-AP-PZ-1	8/24/2020 10:21	Oxidation Reduction Potention	134.61	mv
APCO-GSD-AP-PZ-1	8/24/2020 10:21	pH	6.34	pH
APCO-GSD-AP-PZ-1	8/24/2020 10:21	Temperature	19.55	C
APCO-GSD-AP-PZ-1	8/24/2020 10:21	Turbidity	7.86	NTU
APCO-GSD-AP-PZ-1	8/24/2020 10:26	Conductivity	165.59	uS/cm
APCO-GSD-AP-PZ-1	8/24/2020 10:26	DO	0.65	mg/L
APCO-GSD-AP-PZ-1	8/24/2020 10:26	Depth to Water Detail	10.91	ft
APCO-GSD-AP-PZ-1	8/24/2020 10:26	Oxidation Reduction Potention	137.65	mv
APCO-GSD-AP-PZ-1	8/24/2020 10:26	pH	6.38	pH
APCO-GSD-AP-PZ-1	8/24/2020 10:26	Temperature	19.48	C
APCO-GSD-AP-PZ-1	8/24/2020 10:26	Turbidity	3.67	NTU
APCO-GSD-AP-PZ-1	8/24/2020 10:31	Conductivity	190.95	uS/cm
APCO-GSD-AP-PZ-1	8/24/2020 10:31	DO	0.52	mg/L
APCO-GSD-AP-PZ-1	8/24/2020 10:31	Depth to Water Detail	10.91	ft
APCO-GSD-AP-PZ-1	8/24/2020 10:31	Oxidation Reduction Potention	139.44	mv
APCO-GSD-AP-PZ-1	8/24/2020 10:31	pH	6.44	pH
APCO-GSD-AP-PZ-1	8/24/2020 10:31	Temperature	19.44	C
APCO-GSD-AP-PZ-1	8/24/2020 10:31	Turbidity	2.3	NTU
APCO-GSD-AP-PZ-1	8/24/2020 10:36	Conductivity	208.61	uS/cm
APCO-GSD-AP-PZ-1	8/24/2020 10:36	DO	0.5	mg/L
APCO-GSD-AP-PZ-1	8/24/2020 10:36	Depth to Water Detail	10.91	ft
APCO-GSD-AP-PZ-1	8/24/2020 10:36	Oxidation Reduction Potention	137.25	mv
APCO-GSD-AP-PZ-1	8/24/2020 10:36	pH	6.53	pH
APCO-GSD-AP-PZ-1	8/24/2020 10:36	Temperature	19.41	C
APCO-GSD-AP-PZ-1	8/24/2020 10:36	Turbidity	2.1	NTU
APCO-GSD-AP-PZ-1	8/24/2020 10:41	Conductivity	208.37	uS/cm
APCO-GSD-AP-PZ-1	8/24/2020 10:41	DO	0.53	mg/L
APCO-GSD-AP-PZ-1	8/24/2020 10:41	Depth to Water Detail	10.91	ft
APCO-GSD-AP-PZ-1	8/24/2020 10:41	Oxidation Reduction Potention	134.87	mv
APCO-GSD-AP-PZ-1	8/24/2020 10:41	pH	6.6	pH
APCO-GSD-AP-PZ-1	8/24/2020 10:41	Temperature	19.34	C
APCO-GSD-AP-PZ-1	8/24/2020 10:41	Turbidity	1.94	NTU
APCO-GSD-AP-PZ-1	8/24/2020 10:46	Conductivity	208.32	uS/cm
APCO-GSD-AP-PZ-1	8/24/2020 10:46	DO	0.59	mg/L
APCO-GSD-AP-PZ-1	8/24/2020 10:46	Depth to Water Detail	10.91	ft
APCO-GSD-AP-PZ-1	8/24/2020 10:46	Oxidation Reduction Potention	133.39	mv
APCO-GSD-AP-PZ-1	8/24/2020 10:46	pH	6.64	pH
APCO-GSD-AP-PZ-1	8/24/2020 10:46	Temperature	19.37	C
APCO-GSD-AP-PZ-1	8/24/2020 10:46	Turbidity	1.99	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-PZ-2	8/24/2020 11:32	Conductivity	148.24	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 11:32	DO	0.94	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 11:32	Depth to Water Detail	9.01	ft
APCO-GSD-AP-PZ-2	8/24/2020 11:32	Oxidation Reduction Potention	160.48	mv
APCO-GSD-AP-PZ-2	8/24/2020 11:32	pH	5.81	pH
APCO-GSD-AP-PZ-2	8/24/2020 11:32	Temperature	21.18	C
APCO-GSD-AP-PZ-2	8/24/2020 11:32	Turbidity	27.4	NTU
APCO-GSD-AP-PZ-2	8/24/2020 11:37	Conductivity	158.82	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 11:37	DO	0.48	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 11:37	Depth to Water Detail	9.12	ft
APCO-GSD-AP-PZ-2	8/24/2020 11:37	Oxidation Reduction Potention	155.4	mv
APCO-GSD-AP-PZ-2	8/24/2020 11:37	pH	5.84	pH
APCO-GSD-AP-PZ-2	8/24/2020 11:37	Temperature	21.1	C
APCO-GSD-AP-PZ-2	8/24/2020 11:37	Turbidity	23.9	NTU
APCO-GSD-AP-PZ-2	8/24/2020 11:42	Conductivity	165.17	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 11:42	DO	0.33	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 11:42	Depth to Water Detail	9.18	ft
APCO-GSD-AP-PZ-2	8/24/2020 11:42	Oxidation Reduction Potention	150.44	mv
APCO-GSD-AP-PZ-2	8/24/2020 11:42	pH	5.88	pH
APCO-GSD-AP-PZ-2	8/24/2020 11:42	Temperature	21.03	C
APCO-GSD-AP-PZ-2	8/24/2020 11:42	Turbidity	21.9	NTU
APCO-GSD-AP-PZ-2	8/24/2020 11:47	Conductivity	167.32	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 11:47	DO	0.27	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 11:47	Depth to Water Detail	9.21	ft
APCO-GSD-AP-PZ-2	8/24/2020 11:47	Oxidation Reduction Potention	146.34	mv
APCO-GSD-AP-PZ-2	8/24/2020 11:47	pH	5.91	pH
APCO-GSD-AP-PZ-2	8/24/2020 11:47	Temperature	20.97	C
APCO-GSD-AP-PZ-2	8/24/2020 11:47	Turbidity	21.3	NTU
APCO-GSD-AP-PZ-2	8/24/2020 11:52	Conductivity	170.21	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 11:52	DO	0.24	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 11:52	Depth to Water Detail	9.24	ft
APCO-GSD-AP-PZ-2	8/24/2020 11:52	Oxidation Reduction Potention	143.61	mv
APCO-GSD-AP-PZ-2	8/24/2020 11:52	pH	5.93	pH
APCO-GSD-AP-PZ-2	8/24/2020 11:52	Temperature	20.92	C
APCO-GSD-AP-PZ-2	8/24/2020 11:52	Turbidity	16.2	NTU
APCO-GSD-AP-PZ-2	8/24/2020 11:57	Conductivity	179.16	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 11:57	DO	0.23	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 11:57	Depth to Water Detail	9.26	ft
APCO-GSD-AP-PZ-2	8/24/2020 11:57	Oxidation Reduction Potention	139.91	mv
APCO-GSD-AP-PZ-2	8/24/2020 11:57	pH	5.97	pH
APCO-GSD-AP-PZ-2	8/24/2020 11:57	Temperature	20.98	C
APCO-GSD-AP-PZ-2	8/24/2020 11:57	Turbidity	15.8	NTU
APCO-GSD-AP-PZ-2	8/24/2020 12:02	Conductivity	184.88	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 12:02	DO	0.23	mg/L

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-PZ-2	8/24/2020 12:02	Depth to Water Detail	9.26	ft
APCO-GSD-AP-PZ-2	8/24/2020 12:02	Oxidation Reduction Potention	137.28	mv
APCO-GSD-AP-PZ-2	8/24/2020 12:02	pH	6	pH
APCO-GSD-AP-PZ-2	8/24/2020 12:02	Temperature	21.02	C
APCO-GSD-AP-PZ-2	8/24/2020 12:02	Turbidity	13.7	NTU
APCO-GSD-AP-PZ-2	8/24/2020 12:07	Conductivity	186.45	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 12:07	DO	0.23	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 12:07	Depth to Water Detail	9.27	ft
APCO-GSD-AP-PZ-2	8/24/2020 12:07	Oxidation Reduction Potention	138.49	mv
APCO-GSD-AP-PZ-2	8/24/2020 12:07	pH	5.96	pH
APCO-GSD-AP-PZ-2	8/24/2020 12:07	Temperature	21.05	C
APCO-GSD-AP-PZ-2	8/24/2020 12:07	Turbidity	11.27	NTU
APCO-GSD-AP-PZ-2	8/24/2020 12:12	Conductivity	186.72	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 12:12	DO	0.23	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 12:12	Depth to Water Detail	9.27	ft
APCO-GSD-AP-PZ-2	8/24/2020 12:12	Oxidation Reduction Potention	137.08	mv
APCO-GSD-AP-PZ-2	8/24/2020 12:12	pH	5.97	pH
APCO-GSD-AP-PZ-2	8/24/2020 12:12	Temperature	21.06	C
APCO-GSD-AP-PZ-2	8/24/2020 12:12	Turbidity	11.4	NTU
APCO-GSD-AP-PZ-2	8/24/2020 12:17	Conductivity	186.85	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 12:17	DO	0.23	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 12:17	Depth to Water Detail	9.28	ft
APCO-GSD-AP-PZ-2	8/24/2020 12:17	Oxidation Reduction Potention	135.28	mv
APCO-GSD-AP-PZ-2	8/24/2020 12:17	pH	6	pH
APCO-GSD-AP-PZ-2	8/24/2020 12:17	Temperature	21.02	C
APCO-GSD-AP-PZ-2	8/24/2020 12:17	Turbidity	9.58	NTU
APCO-GSD-AP-PZ-2	8/24/2020 12:22	Conductivity	184.93	uS/cm
APCO-GSD-AP-PZ-2	8/24/2020 12:22	DO	0.24	mg/L
APCO-GSD-AP-PZ-2	8/24/2020 12:22	Depth to Water Detail	9.28	ft
APCO-GSD-AP-PZ-2	8/24/2020 12:22	Oxidation Reduction Potention	134.49	mv
APCO-GSD-AP-PZ-2	8/24/2020 12:22	pH	6	pH
APCO-GSD-AP-PZ-2	8/24/2020 12:22	Temperature	20.96	C
APCO-GSD-AP-PZ-2	8/24/2020 12:22	Turbidity	8.5	NTU

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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-PZ-5	8/24/2020 13:19	Conductivity	46.27	uS/cm
APCO-GSD-AP-PZ-5	8/24/2020 13:19	DO	4.85	mg/L
APCO-GSD-AP-PZ-5	8/24/2020 13:19	Depth to Water Detail	13.29	ft
APCO-GSD-AP-PZ-5	8/24/2020 13:19	Oxidation Reduction Potention	230.22	mv
APCO-GSD-AP-PZ-5	8/24/2020 13:19	pH	4.54	pH
APCO-GSD-AP-PZ-5	8/24/2020 13:19	Temperature	17.17	C
APCO-GSD-AP-PZ-5	8/24/2020 13:19	Turbidity	13.7	NTU
APCO-GSD-AP-PZ-5	8/24/2020 13:24	Conductivity	45.86	uS/cm
APCO-GSD-AP-PZ-5	8/24/2020 13:24	DO	4.86	mg/L
APCO-GSD-AP-PZ-5	8/24/2020 13:24	Depth to Water Detail	13.29	ft
APCO-GSD-AP-PZ-5	8/24/2020 13:24	Oxidation Reduction Potention	231.04	mv
APCO-GSD-AP-PZ-5	8/24/2020 13:24	pH	4.56	pH
APCO-GSD-AP-PZ-5	8/24/2020 13:24	Temperature	17.15	C
APCO-GSD-AP-PZ-5	8/24/2020 13:24	Turbidity	8.76	NTU
APCO-GSD-AP-PZ-5	8/24/2020 13:29	Conductivity	45.76	uS/cm
APCO-GSD-AP-PZ-5	8/24/2020 13:29	DO	4.87	mg/L
APCO-GSD-AP-PZ-5	8/24/2020 13:29	Depth to Water Detail	13.29	ft
APCO-GSD-AP-PZ-5	8/24/2020 13:29	Oxidation Reduction Potention	231.93	mv
APCO-GSD-AP-PZ-5	8/24/2020 13:29	pH	4.63	pH
APCO-GSD-AP-PZ-5	8/24/2020 13:29	Temperature	17.18	C
APCO-GSD-AP-PZ-5	8/24/2020 13:29	Turbidity	5.13	NTU
APCO-GSD-AP-PZ-5	8/24/2020 13:34	Conductivity	45.69	uS/cm
APCO-GSD-AP-PZ-5	8/24/2020 13:34	DO	4.85	mg/L
APCO-GSD-AP-PZ-5	8/24/2020 13:34	Depth to Water Detail	13.29	ft
APCO-GSD-AP-PZ-5	8/24/2020 13:34	Oxidation Reduction Potention	234.17	mv
APCO-GSD-AP-PZ-5	8/24/2020 13:34	pH	4.65	pH
APCO-GSD-AP-PZ-5	8/24/2020 13:34	Temperature	17.18	C
APCO-GSD-AP-PZ-5	8/24/2020 13:34	Turbidity	3.64	NTU

Alabama Power Company
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WELL ID	READING TIME	DESCRIPTION	VALUE	UNIT
APCO-GSD-AP-PZ-6	8/24/2020 14:14	Conductivity	49.09	uS/cm
APCO-GSD-AP-PZ-6	8/24/2020 14:14	DO	5.84	mg/L
APCO-GSD-AP-PZ-6	8/24/2020 14:14	Depth to Water Detail	8.63	ft
APCO-GSD-AP-PZ-6	8/24/2020 14:14	Oxidation Reduction Potention	217.73	mv
APCO-GSD-AP-PZ-6	8/24/2020 14:14	pH	5.17	pH
APCO-GSD-AP-PZ-6	8/24/2020 14:14	Temperature	18.88	C
APCO-GSD-AP-PZ-6	8/24/2020 14:14	Turbidity	16.5	NTU
APCO-GSD-AP-PZ-6	8/24/2020 14:19	Conductivity	48.83	uS/cm
APCO-GSD-AP-PZ-6	8/24/2020 14:19	DO	5.75	mg/L
APCO-GSD-AP-PZ-6	8/24/2020 14:19	Depth to Water Detail	8.63	ft
APCO-GSD-AP-PZ-6	8/24/2020 14:19	Oxidation Reduction Potention	215.52	mv
APCO-GSD-AP-PZ-6	8/24/2020 14:19	pH	5.24	pH
APCO-GSD-AP-PZ-6	8/24/2020 14:19	Temperature	18.78	C
APCO-GSD-AP-PZ-6	8/24/2020 14:19	Turbidity	12.8	NTU
APCO-GSD-AP-PZ-6	8/24/2020 14:24	Conductivity	48.97	uS/cm
APCO-GSD-AP-PZ-6	8/24/2020 14:24	DO	5.77	mg/L
APCO-GSD-AP-PZ-6	8/24/2020 14:24	Depth to Water Detail	8.63	ft
APCO-GSD-AP-PZ-6	8/24/2020 14:24	Oxidation Reduction Potention	213.61	mv
APCO-GSD-AP-PZ-6	8/24/2020 14:24	pH	5.3	pH
APCO-GSD-AP-PZ-6	8/24/2020 14:24	Temperature	18.78	C
APCO-GSD-AP-PZ-6	8/24/2020 14:24	Turbidity	8.5	NTU
APCO-GSD-AP-PZ-6	8/24/2020 14:29	Conductivity	48.78	uS/cm
APCO-GSD-AP-PZ-6	8/24/2020 14:29	DO	5.76	mg/L
APCO-GSD-AP-PZ-6	8/24/2020 14:29	Depth to Water Detail	8.63	ft
APCO-GSD-AP-PZ-6	8/24/2020 14:29	Oxidation Reduction Potention	211.61	mv
APCO-GSD-AP-PZ-6	8/24/2020 14:29	pH	5.35	pH
APCO-GSD-AP-PZ-6	8/24/2020 14:29	Temperature	18.73	C
APCO-GSD-AP-PZ-6	8/24/2020 14:29	Turbidity	6.73	NTU
APCO-GSD-AP-PZ-6	8/24/2020 14:34	Conductivity	48.83	uS/cm
APCO-GSD-AP-PZ-6	8/24/2020 14:34	DO	5.76	mg/L
APCO-GSD-AP-PZ-6	8/24/2020 14:34	Depth to Water Detail	8.63	ft
APCO-GSD-AP-PZ-6	8/24/2020 14:34	Oxidation Reduction Potention	210.99	mv
APCO-GSD-AP-PZ-6	8/24/2020 14:34	pH	5.38	pH
APCO-GSD-AP-PZ-6	8/24/2020 14:34	Temperature	18.71	C
APCO-GSD-AP-PZ-6	8/24/2020 14:34	Turbidity	4.94	NTU

Appendix C

GROUNDWATER STATS CONSULTING

November 6, 2020

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Gadsden Ash Pond
1st Semi-Annual Analysis – August 2020

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the August 2020 1st semi-annual sample event for Alabama Power Company's Plant Gadsden Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) and follows the USEPA Unified Guidance (2009).

Sampling began for the CCR program in December 2017, and at least 8 background samples have been collected at each of the groundwater monitoring wells.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** GSD-AP-MW-14, GSD-AP-MW-16, and GSD-AP-MW-17
- **Downgradient wells:** GSD-AP-MW-1, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-PZ-1, GSD-AP-PZ-2, GSD-AP-PZ-5, and GSD-AP-PZ-6
- **Delineation wells:** GSD-AP-MW-2VA, GSD-AP-MW-4V, GSD-AP-MW-18H, GSD-AP-MW-19H, and GSD-AP-MW-20H
- **Piezometers:** GSD-AP-MW-2V

Note that delineation wells did not require statistics and, therefore, were plotted only on time series and box plots. Downgradient well GSD-AP-PZ-2 has recently been converted from a piezometer to a downgradient well and also does not require statistics because it is lacks sufficient data for statistical analyses. Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Groundwater Statistician for Groundwater Stats Consulting.

The CCR program consists of the following constituents:

> **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
> **Appendix IV** (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% nondetects follows this letter. A substitution of the most recent reporting limit is used for nondetect data.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). A substitution of the most recent reporting limit is used for nondetect data. Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-3 resample plan

- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples (Intrawell): 8
- # Background Samples (Interwell): 37
- # Constituents: 7
- # Downgradient wells: 15

Summary of Statistical Methods – Appendix III Parameters

Based on the earlier evaluation described above, the following statistical methods were selected:

- Intrawell prediction limits, combined with a 1-of-3 resample plan for fluoride and pH
- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, sulfate, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (USEPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in April 2019

Outlier and Trend Testing

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, two outliers were identified. A summary of those findings was included with the 2019 background screening. While this is not the case in the present data set, when the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, only one value was flagged as an outlier in the database since the other value was similar to remaining measurements within the same well and neighboring wells. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A

substitution of the most recent reporting limit was applied when varying detection limits existed in data.

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing and increasing trends for the Appendix III parameters and were included with the 2019 background screening. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with less than two years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Appendix III – Evaluation of Statistical Approaches

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data

population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

Based on the results of the 2019 background screening for Appendix III parameters, intrawell methods were recommended for fluoride and pH, and interwell methods were recommended for boron, calcium, chloride, sulfate, and TDS. If further evaluation confirms natural variation in groundwater, intrawell methods will be considered for parameters currently recommended for interwell methods.

Evaluation of Appendix III Parameters – August 2020

For Appendix III parameters that are analyzed using interwell prediction limits, background (upgradient) well data through August 2020 were re-assessed for potential outliers during this analysis. No new values were flagged. The background date ranges for intrawell Appendix III parameters extend through February 6, 2019 and a list of well/constituent pairs that use a truncated portion of background follow this report. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of previously flagged outliers follows this report (Figure C).

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, sulfate, and TDS (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. Intrawell prediction limits combined with a 1-of-3 verification strategy were constructed for fluoride and pH (Figure E). Background data for these limits are updated when a minimum of 4 compliance samples are available. This was last performed in April 2019 and the report was submitted at that time.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample, and the 1-of-3 resample plan allows for collection of up to two additional samples, to determine whether the initial exceedance is

confirmed. When the resamples confirm the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. Summaries of the prediction limits results may be found in the Prediction Limit Summary tables following this letter, which include the exceedances identified for both interwell and intrawell parameters.

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. The existence of similar trends in both upgradient and downgradient wells is an indication of natural variability in groundwater that is unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: GSD-AP-MW-3
- Calcium: GSD-AP-MW-11
- Sulfate: GSD-AP-MW-11
- TDS: GSD-AP-MW-11

Decreasing:

- Boron: GSD-AP-MW-2, GSD-AP-MW-4, and GSD-AP-MW-5
- Chloride: GSD-AP-MW-17 (upgradient), GSD-AP-MW-3, and GSD-AP-MW-5
- pH: GSD-AP-MW-16 (upgradient), GSD-AP-MW-1, GSD-AP-MW-6, GSD-AP-MW-11, and GSD-AP-PZ-5
- TDS: GSD-AP-MW-1, GSD-AP-MW-2, and GSD-AP-MW-3

Evaluation of Appendix IV Parameters – August 2020

Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis and no new outliers were flagged at this time. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management, the Groundwater Protections Standards (GWPS) utilized during the 2019 1st semi-annual report were used in the confidence interval analysis for this 2020 1st semi-annual report.

The GWPS will be updated during the 2021 1st semi-annual statistical analysis. The methodology used to create these GWPS is described below.

First, background limits were determined using tolerance limits constructed from pooled upgradient well data. The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. When data followed a normal or transformed-normal distribution, parametric tolerance limits were used to calculate background limits for Appendix IV parameters using pooled upgradient well data through August 2019 with a target of 95% confidence and 95% coverage (Figure G).

Nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% nondetects. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure H) in the confidence interval comparisons described below. Note that none of the parametric tolerance limits resulted in higher limits than the established MCLs or CCR-Rule Specified Limits. In future UTL calculations, nonparametric tolerance limits will be used exclusively, as requested by ADEM, to eliminate variation among upgradient well data.

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through August 2020 for each of the Appendix IV parameters. These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of nondetects. Date ranges were set for well/constituent pairs that had more than 8 samples between the dates of 6/26/2018 and 8/26/2020 and a list of those well/constituent pairs follows this report. As mentioned above, well/constituent pairs with 100% nondetects did not require statistics and were, therefore, deselected prior to construction confidence intervals. A list of those deselected well/constituent pairs follows this report. The decision logic, with respect to the use of parametric or nonparametric confidence intervals, is similar to that used to construct tolerance limits as discussed above. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter (Figure I). The exceedances for confidence intervals were identified for the following well/constituent pairs:

- Arsenic: GSD-AP-MW-2 and GSD-AP-MW-4

- Lithium: GSD-AP-MW-2

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Gadsden Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Kristina L. Rayner
Groundwater Statistician

Abdul Diane
Groundwater Analyst

100% Non-Detects

Analysis Run 11/4/2020 2:28 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Antimony (mg/L)
GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-PZ-1

Arsenic (mg/L)
GSD-AP-MW-12, GSD-AP-MW-3, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6

Beryllium (mg/L)
GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6

Cadmium (mg/L)
GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-2, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-6

Chromium (mg/L)
GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-2, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6

Cobalt (mg/L)
GSD-AP-MW-10, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-6

Lead (mg/L)
GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6

Lithium (mg/L)
GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6

Mercury (mg/L)
GSD-AP-MW-1, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6

Molybdenum (mg/L)
GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6

Selenium (mg/L)
GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6

Thallium (mg/L)
GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5, GSD-AP-MW-6, GSD-AP-MW-7, GSD-AP-MW-8, GSD-AP-MW-9, GSD-AP-PZ-1, GSD-AP-PZ-5, GSD-AP-PZ-6

Appendix III Date Ranges

Date: 11/5/2020 12:57 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

pH (pH)

GSD-AP-MW-9 background:12/6/2017-12/5/2018

Appendix IV Date Ranges

Date: 10/29/2020 7:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Antimony (mg/L)
- GSD-AP-PZ-5 overall:9/5/2018-8/26/2020
- GSD-AP-PZ-6 overall:9/5/2018-8/26/2020

Barium (mg/L)
- GSD-AP-MW-3 overall:8/7/2018-8/26/2020
- GSD-AP-PZ-1 overall:9/5/2018-8/26/2020
- GSD-AP-PZ-5 overall:9/5/2018-8/26/2020
- GSD-AP-PZ-6 overall:9/5/2018-8/26/2020

Cadmium (mg/L)
- GSD-AP-MW-3 overall:8/7/2018-8/26/2020
- GSD-AP-PZ-5 overall:9/5/2018-8/26/2020

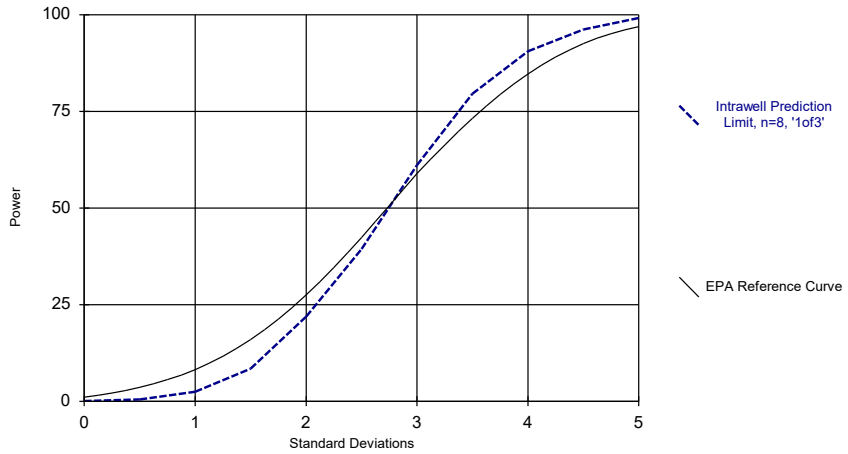
Chromium (mg/L)
- GSD-AP-MW-3 overall:8/7/2018-8/26/2020

Cobalt (mg/L)
- GSD-AP-MW-3 overall:8/7/2018-8/26/2020
- GSD-AP-PZ-5 overall:9/5/2018-8/26/2020

Combined Radium 226 + 228 (pCi/L)
- GSD-AP-PZ-1 overall:9/5/2018-8/26/2020
- GSD-AP-PZ-5 overall:9/5/2018-8/26/2020
- GSD-AP-PZ-6 overall:9/5/2018-8/26/2020

Fluoride (mg/L)
- GSD-AP-MW-1 overall:8/7/2018-8/26/2020
- GSD-AP-MW-10 overall:8/7/2018-8/26/2020
- GSD-AP-MW-11 overall:8/8/2018-8/26/2020
- GSD-AP-MW-12 overall:8/8/2018-8/26/2020
- GSD-AP-MW-2 overall:8/7/2018-8/26/2020
- GSD-AP-MW-3 overall:10/22/2018-8/26/2020
- GSD-AP-MW-4 overall:8/6/2018-8/26/2020
- GSD-AP-MW-5 overall:8/7/2018-8/26/2020
- GSD-AP-MW-6 overall:8/7/2018-8/26/2020
- GSD-AP-MW-7 overall:8/8/2018-8/26/2020
- GSD-AP-MW-8 overall:8/8/2018-8/26/2020
- GSD-AP-MW-9 overall:8/8/2018-8/26/2020
- GSD-AP-PZ-1 overall:9/24/2018-8/26/2020
- GSD-AP-PZ-5 overall:9/24/2018-8/26/2020
- GSD-AP-PZ-6 overall:9/24/2018-8/26/2020

Intrawell Power Curve



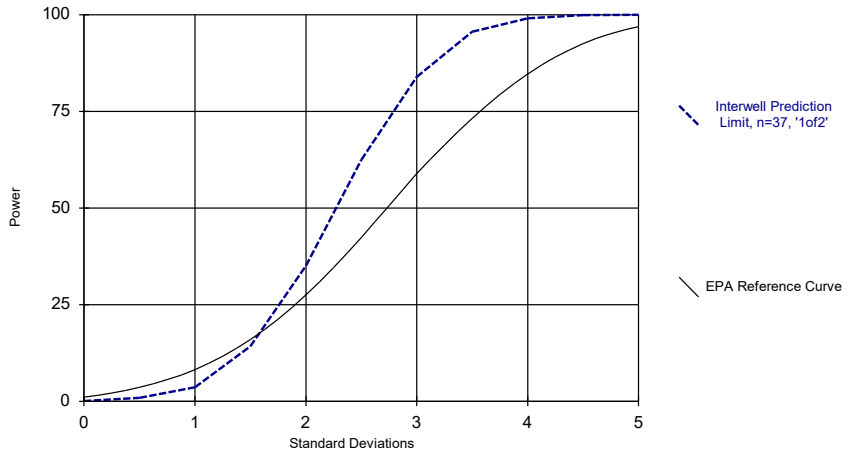
Kappa = 2.407, based on 15 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 11/4/2020 1:03 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Interwell Power Curve



Kappa = 2.192, based on 15 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 11/4/2020 1:03 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Intrawell Prediction Limits - Significant Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/5/2020, 12:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH)	GSD-AP-MW-1	6.642	6.005	8/25/2020	6	Yes	8	6.324	0.1322	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-11	6.862	6.515	8/26/2020	6.38	Yes	8	6.689	0.072	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-8	6.844	6.476	8/26/2020	6.29	Yes	8	6.66	0.07635	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-9	7.005	6.825	8/26/2020	6.75	Yes	8	6.915	0.03742	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-PZ-5	5.932	5.373	8/24/2020	4.65	Yes	8	5.653	0.1161	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-PZ-6	5.665	5.425	8/24/2020	5.38	Yes	8	5.545	0.04986	0	None	No	0.0002508	Param Intra 1 of 3

Intrawell Prediction Limits - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/5/2020, 12:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GSD-AP-MW-1	0.114	n/a	8/25/2020	0.1ND	No	8	0.07031	0.01815	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-10	0.1319	n/a	8/26/2020	0.0997J	No	8	0.08213	0.02068	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-11	0.1029	n/a	8/26/2020	0.1ND	No	8	0.2505	0.02925	12.5	None	sqrt(x)	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-12	0.1	n/a	8/26/2020	0.1ND	No	8	n/a	n/a	87.5	n/a	n/a	0.005912	NP Intra (NDs) 1 of 3
Fluoride (mg/L)	GSD-AP-MW-14	0.3193	n/a	8/25/2020	0.1ND	No	8	0.1713	0.06151	12.5	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-16	0.16	n/a	8/25/2020	0.0863J	No	8	n/a	n/a	25	n/a	n/a	0.005912	NP Intra (normality) 1 of 3
Fluoride (mg/L)	GSD-AP-MW-17	0.2447	n/a	8/24/2020	0.163	No	8	0.1888	0.02322	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-2	0.3552	n/a	8/25/2020	0.273	No	8	0.2346	0.05008	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-3	0.146	n/a	8/26/2020	0.1ND	No	8	0.08425	0.02567	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-4	0.2778	n/a	8/26/2020	0.251	No	8	0.2311	0.01939	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-5	0.08006	n/a	8/24/2020	0.0607J	No	8	0.05689	0.009625	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-6	0.1031	n/a	8/26/2020	0.1ND	No	8	0.05726	0.01906	12.5	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-7	0.1236	n/a	8/26/2020	0.1ND	No	8	0.085	0.01604	12.5	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-8	0.1463	n/a	8/26/2020	0.0732J	No	8	0.1038	0.01768	12.5	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-9	0.1569	n/a	8/26/2020	0.13	No	8	0.01259	0.004996	12.5	None	x^2	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-PZ-1	0.1609	n/a	8/24/2020	0.114	No	8	0.1142	0.01941	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-PZ-5	0.1	n/a	8/24/2020	0.1ND	No	8	n/a	n/a	25	n/a	n/a	0.005912	NP Intra (normality) 1 of 3
Fluoride (mg/L)	GSD-AP-PZ-6	0.1	n/a	8/24/2020	0.1ND	No	8	n/a	n/a	25	n/a	n/a	0.005912	NP Intra (normality) 1 of 3
pH (pH)	**GSD-AP-MW-1**	**6.642**	**6.005**	**8/25/2020**	**6**	**Yes**	**8**	**6.324**	**0.1322**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	GSD-AP-MW-10	6.889	6.598	8/26/2020	6.73	No	8	6.744	0.06046	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	**GSD-AP-MW-11**	**6.862**	**6.515**	**8/26/2020**	**6.38**	**Yes**	**8**	**6.689**	**0.072**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	GSD-AP-MW-12	5.64	5.257	8/26/2020	5.63	No	8	5.449	0.07954	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-14	4.172	3.928	8/25/2020	4.03	No	8	4.05	0.05071	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-16	5.451	3.959	8/25/2020	4.2	No	8	4.705	0.3101	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-17	10.15	7.57	8/24/2020	8.17	No	8	8.858	0.5351	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-2	6.718	6.419	8/25/2020	6.65	No	8	6.569	0.06221	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-3	6.788	5.665	8/26/2020	5.87	No	8	6.226	0.2334	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-4	6.796	6.547	8/26/2020	6.68	No	8	6.671	0.05167	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-5	6.366	5.994	8/24/2020	6.11	No	8	6.18	0.07746	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-6	6.44	5.885	8/26/2020	5.96	No	8	6.163	0.1154	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-7	6.821	5.959	8/26/2020	6.11	No	8	6.39	0.1789	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	**GSD-AP-MW-8**	**6.844**	**6.476**	**8/26/2020**	**6.29**	**Yes**	**8**	**6.66**	**0.07635**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	**GSD-AP-MW-9**	**7.005**	**6.825**	**8/26/2020**	**6.75**	**Yes**	**8**	**6.915**	**0.03742**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	GSD-AP-PZ-1	6.924	6.556	8/24/2020	6.64	No	8	6.74	0.07635	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	**GSD-AP-PZ-5**	**5.932**	**5.373**	**8/24/2020**	**4.65**	**Yes**	**8**	**5.653**	**0.1161**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	**GSD-AP-PZ-6**	**5.665**	**5.425**	**8/24/2020**	**5.38**	**Yes**	**8**	**5.545**	**0.04986**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**

Interwell Prediction Limits - Significant Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GSD-AP-MW-1	0.1	n/a	8/25/2020	1.11	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-10	0.1	n/a	8/26/2020	0.108	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-11	0.1	n/a	8/26/2020	0.257	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-2	0.1	n/a	8/25/2020	0.528	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-3	0.1	n/a	8/26/2020	1.16	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-4	0.1	n/a	8/26/2020	0.398	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-5	0.1	n/a	8/24/2020	0.329	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GSD-AP-MW-1	30.18	n/a	8/25/2020	218	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-10	30.18	n/a	8/26/2020	37.8	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-11	30.18	n/a	8/26/2020	111	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-12	30.18	n/a	8/26/2020	68.4	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-2	30.18	n/a	8/25/2020	80.5	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-3	30.18	n/a	8/26/2020	75.7	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-5	30.18	n/a	8/24/2020	35.5	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-8	30.18	n/a	8/26/2020	55.5	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-9	30.18	n/a	8/26/2020	43.2	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-1	4.149	n/a	8/25/2020	5.59	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-10	4.149	n/a	8/26/2020	5.39	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-11	4.149	n/a	8/26/2020	4.74	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-12	4.149	n/a	8/26/2020	5.91	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-3	4.149	n/a	8/26/2020	5.89	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-4	4.149	n/a	8/26/2020	8.96	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-5	4.149	n/a	8/24/2020	6.64	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-6	4.149	n/a	8/26/2020	9.21	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-7	4.149	n/a	8/26/2020	6.19	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-8	4.149	n/a	8/26/2020	5.16	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-9	4.149	n/a	8/26/2020	6.57	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Sulfate (mg/L)	GSD-AP-MW-1	207	n/a	8/25/2020	642	Yes	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-11	207	n/a	8/26/2020	280	Yes	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-12	207	n/a	8/26/2020	282	Yes	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-3	207	n/a	8/26/2020	246	Yes	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-1	288.3	n/a	8/25/2020	1060	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-11	288.3	n/a	8/26/2020	517	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-12	288.3	n/a	8/26/2020	472	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-2	288.3	n/a	8/25/2020	339	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-3	288.3	n/a	8/26/2020	455	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**GSD-AP-MW-1**	**0.1**	**n/a**	**8/25/2020**	**1.11**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-10**	**0.1**	**n/a**	**8/26/2020**	**0.108**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-11**	**0.1**	**n/a**	**8/26/2020**	**0.257**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GSD-AP-MW-12	0.1	n/a	8/26/2020	0.0698J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GSD-AP-MW-2**	**0.1**	**n/a**	**8/25/2020**	**0.528**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-3**	**0.1**	**n/a**	**8/26/2020**	**1.16**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-4**	**0.1**	**n/a**	**8/26/2020**	**0.398**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-5**	**0.1**	**n/a**	**8/24/2020**	**0.329**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GSD-AP-MW-6	0.1	n/a	8/26/2020	0.0633J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-7	0.1	n/a	8/26/2020	0.0665J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-8	0.1	n/a	8/26/2020	0.0501J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-9	0.1	n/a	8/26/2020	0.0565J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-PZ-1	0.1	n/a	8/24/2020	0.1ND	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-PZ-5	0.1	n/a	8/24/2020	0.1ND	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-PZ-6	0.1	n/a	8/24/2020	0.1ND	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Calcium (mg/L)	**GSD-AP-MW-1**	**30.18**	**n/a**	**8/25/2020**	**218**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-10**	**30.18**	**n/a**	**8/26/2020**	**37.8**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-11**	**30.18**	**n/a**	**8/26/2020**	**111**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-12**	**30.18**	**n/a**	**8/26/2020**	**68.4**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-2**	**30.18**	**n/a**	**8/25/2020**	**80.5**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-3**	**30.18**	**n/a**	**8/26/2020**	**75.7**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	GSD-AP-MW-4	30.18	n/a	8/26/2020	22.8	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	**GSD-AP-MW-5**	**30.18**	**n/a**	**8/24/2020**	**35.5**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	GSD-AP-MW-6	30.18	n/a	8/26/2020	12.9	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-7	30.18	n/a	8/26/2020	16.7	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	**GSD-AP-MW-8**	**30.18**	**n/a**	**8/26/2020**	**55.5**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-9**	**30.18**	**n/a**	**8/26/2020**	**43.2**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	GSD-AP-PZ-1	30.18	n/a	8/24/2020	29	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-PZ-5	30.18	n/a	8/24/2020	2.94	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-PZ-6	30.18	n/a	8/24/2020	3.45	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	**GSD-AP-MW-1**	**4.149**	**n/a**	**8/25/2020**	**5.59**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-10**	**4.149**	**n/a**	**8/26/2020**	**5.39**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-11**	**4.149**	**n/a**	**8/26/2020**	**4.74**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-12**	**4.149**	**n/a**	**8/26/2020**	**5.91**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	GSD-AP-MW-2	4.149	n/a	8/25/2020	2	No	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	**GSD-AP-MW-3**	**4.149**	**n/a**	**8/26/2020**	**5.89**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-4**	**4.149**	**n/a**	**8/26/2020**	**8.96**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-5**	**4.149**	**n/a**	**8/24/2020**	**6.64**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-6**	**4.149**	**n/a**	**8/26/2020**	**9.21**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-7**	**4.149**	**n/a**	**8/26/2020**	**6.19**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-8**	**4.149**	**n/a**	**8/26/2020**	**5.16**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-9**	**4.149**	**n/a**	**8/26/2020**	**6.57**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	GSD-AP-PZ-1	4.149	n/a	8/24/2020	3.35	No	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-PZ-5	4.149	n/a	8/24/2020	3.96	No	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-PZ-6	4.149	n/a	8/24/2020	3.59	No	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Sulfate (mg/L)	**GSD-AP-MW-1**	**207**	**n/a**	**8/25/2020**	**642**	**Yes**	**37**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00126**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GSD-AP-MW-10	207	n/a	8/26/2020	10.5	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GSD-AP-MW-11**	**207**	**n/a**	**8/26/2020**	**280**	**Yes**	**37**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00126**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GSD-AP-MW-12**	**207**	**n/a**	**8/26/2020**	**282**	**Yes**	**37**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00126**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GSD-AP-MW-2	207	n/a	8/25/2020	114	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GSD-AP-MW-3**	**207**	**n/a**	**8/26/2020**	**246**	**Yes**	**37**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00126**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GSD-AP-MW-4	207	n/a	8/26/2020	15.5	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-5	207	n/a	8/24/2020	21.2	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-6	207	n/a	8/26/2020	13.1	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-7	207	n/a	8/26/2020	9.19	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-8	207	n/a	8/26/2020	16.1	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GSD-AP-MW-9	207	n/a	8/26/2020	12.9	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-PZ-1	207	n/a	8/24/2020	4.16	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-PZ-5	207	n/a	8/24/2020	0.5ND	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-PZ-6	207	n/a	8/24/2020	1.31	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**GSD-AP-MW-1**	**288.3**	**n/a**	**8/25/2020**	**1060**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	GSD-AP-MW-10	288.3	n/a	8/26/2020	186	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**GSD-AP-MW-11**	**288.3**	**n/a**	**8/26/2020**	**517**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-12**	**288.3**	**n/a**	**8/26/2020**	**472**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-2**	**288.3**	**n/a**	**8/25/2020**	**339**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-3**	**288.3**	**n/a**	**8/26/2020**	**455**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	GSD-AP-MW-4	288.3	n/a	8/26/2020	168	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-5	288.3	n/a	8/24/2020	175	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-6	288.3	n/a	8/26/2020	91.3	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-7	288.3	n/a	8/26/2020	109	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-8	288.3	n/a	8/26/2020	215	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-9	288.3	n/a	8/26/2020	192	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-PZ-1	288.3	n/a	8/24/2020	114	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-PZ-5	288.3	n/a	8/24/2020	42.7	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-PZ-6	288.3	n/a	8/24/2020	37.3	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/5/2020, 1:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**GSD-AP-MW-2**	**-0.08945**	**-41**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-3**	**0.0734**	**55**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-4**	**-0.06275**	**-46**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-5**	**-0.07311**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GSD-AP-MW-11**	**8.6**	**45**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GSD-AP-MW-17 (bg)**	**-0.9327**	**-57**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GSD-AP-MW-3**	**-0.7707**	**-65**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GSD-AP-MW-5**	**-0.6853**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-1**	**-0.3093**	**-59**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-11**	**-0.1505**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-16 (bg)**	**-0.9487**	**-47**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-8**	**-0.1389**	**-40**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-PZ-5**	**-0.5093**	**-52**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GSD-AP-MW-11**	**43.04**	**46**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-1**	**-86.68**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-11**	**39.67**	**40**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-2**	**-88.86**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-3**	**-68.08**	**-50**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/5/2020, 1:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GSD-AP-MW-1	-0.06304	-37	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-10	-0.0007265	0	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-11	0.02312	37	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-14 (bg)	0	0	38	No	12	100	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-16 (bg)	0.03585	32	43	No	13	53.85	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-17 (bg)	-0.003042	-28	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GSD-AP-MW-2**	**-0.08945**	**-41**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-3**	**0.0734**	**55**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-4**	**-0.06275**	**-46**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-5**	**-0.07311**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GSD-AP-MW-1	-18.1	-31	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-10	0.2588	4	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GSD-AP-MW-11**	**8.6**	**45**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GSD-AP-MW-12	7.173	26	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-14 (bg)	-0.5934	-4	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-16 (bg)	-1.38	-9	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-17 (bg)	0.1404	1	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-2	-18.51	-37	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-3	-15.52	-42	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-5	-2.769	-28	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-8	-0.9066	-10	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-9	2.131	32	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-1	-0.1487	-26	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-10	-0.1092	-6	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-11	-0.3142	-17	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-12	-0.04639	-6	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-14 (bg)	0.1209	14	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-16 (bg)	-0.0039	-2	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GSD-AP-MW-17 (bg)**	**-0.9327**	**-57**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GSD-AP-MW-3**	**-0.7707**	**-65**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GSD-AP-MW-4	0.3842	24	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GSD-AP-MW-5**	**-0.6853**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GSD-AP-MW-6	-0.3626	-27	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-7	-0.5931	-27	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-8	0.253	14	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-9	0.04339	2	38	No	12	0	n/a	n/a	0.01	NP
pH (pH)	**GSD-AP-MW-1**	**-0.3093**	**-59**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-11**	**-0.1505**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GSD-AP-MW-14 (bg)	-0.01296	-9	-38	No	12	0	n/a	n/a	0.01	NP
pH (pH)	**GSD-AP-MW-16 (bg)**	**-0.9487**	**-47**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GSD-AP-MW-17 (bg)	0.4416	12	38	No	12	0	n/a	n/a	0.01	NP
pH (pH)	**GSD-AP-MW-8**	**-0.1389**	**-40**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GSD-AP-MW-9	-0.05554	-19	-43	No	13	0	n/a	n/a	0.01	NP
pH (pH)	**GSD-AP-PZ-5**	**-0.5093**	**-52**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GSD-AP-PZ-6	-0.0561	-24	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-1	32.55	15	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GSD-AP-MW-11**	**43.04**	**46**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GSD-AP-MW-12	37.98	28	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-14 (bg)	-1.926	-1	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-16 (bg)	56.49	35	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-17 (bg)	-3.463	-38	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-3	0.4195	3	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**GSD-AP-MW-1**	**-86.68**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-11**	**39.67**	**40**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GSD-AP-MW-12	32.8	13	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GSD-AP-MW-14 (bg)	6.761	2	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GSD-AP-MW-16 (bg)	39.73	30	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GSD-AP-MW-17 (bg)	-12.08	-19	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**GSD-AP-MW-2**	**-88.86**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-3**	**-68.08**	**-50**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits - Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 7/23/2020, 2:34 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	28	n/a	n/a	96.43	n/a	n/a	0.2378	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	28	n/a	n/a	53.57	n/a	n/a	0.2378	NP Inter(NDs)
Barium (mg/L)	0.259	n/a	28	n/a	n/a	0	n/a	n/a	0.2378	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	28	n/a	n/a	46.43	n/a	n/a	0.2378	NP Inter(normal...
Cadmium (mg/L)	0.00101	n/a	28	n/a	n/a	32.14	n/a	n/a	0.2378	NP Inter(normal...
Chromium (mg/L)	0.01	n/a	28	n/a	n/a	96.43	n/a	n/a	0.2378	NP Inter(NDs)
Cobalt (mg/L)	0.0538	n/a	28	n/a	n/a	32.14	n/a	n/a	0.2378	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	1.213	n/a	21	0.5662	0.2728	0	None	No	0.05	Inter
Fluoride (mg/L)	0.23	n/a	31	n/a	n/a	25.81	n/a	n/a	0.2039	NP Inter(normal...
Lead (mg/L)	0.005	n/a	28	n/a	n/a	53.57	n/a	n/a	0.2378	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	28	n/a	n/a	78.57	n/a	n/a	0.2378	NP Inter(NDs)
Mercury (mg/L)	0.000664	n/a	27	n/a	n/a	62.96	n/a	n/a	0.2503	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	28	n/a	n/a	71.43	n/a	n/a	0.2378	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	28	n/a	n/a	64.29	n/a	n/a	0.2378	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	28	n/a	n/a	100	n/a	n/a	0.2378	NP Inter(NDs)

Confidence Intervals - Significant Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GSD-AP-MW-2**	**0.999**	**0.6415**	**0.01**	**Yes**	**8**	**0.8203**	**0.1687**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GSD-AP-MW-4**	**0.01413**	**0.01155**	**0.01**	**Yes**	**8**	**0.01284**	**0.001219**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GSD-AP-MW-2**	**0.07593**	**0.04207**	**0.04**	**Yes**	**8**	**0.059**	**0.01597**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GSD-AP-PZ-5	0.003	0.00114	0.006	No	8	0.002768	0.0006576	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GSD-AP-PZ-6	0.003	0.00181	0.006	No	8	0.002851	0.0004207	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GSD-AP-MW-1	0.004617	0.003175	0.01	No	8	0.003896	0.0006801	0	None	No	0.01	Param.
Arsenic (mg/L)	GSD-AP-MW-10	0.004293	0.00297	0.01	No	8	0.003631	0.000624	0	None	No	0.01	Param.
Arsenic (mg/L)	GSD-AP-MW-11	0.002907	0.002456	0.01	No	8	0.002681	0.0002126	0	None	No	0.01	Param.
Arsenic (mg/L)	**GSD-AP-MW-2**	**0.999**	**0.6415**	**0.01**	**Yes**	**8**	**0.8203**	**0.1687**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GSD-AP-MW-4**	**0.01413**	**0.01155**	**0.01**	**Yes**	**8**	**0.01284**	**0.001219**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GSD-AP-MW-8	0.003289	0.002381	0.01	No	8	0.002835	0.0004281	0	None	No	0.01	Param.
Arsenic (mg/L)	GSD-AP-MW-9	0.0025	0.00111	0.01	No	8	0.002161	0.0006275	75	None	No	0.004	NP (NDs)
Barium (mg/L)	GSD-AP-MW-1	0.04573	0.03522	2	No	8	0.04048	0.004953	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-10	0.3321	0.2657	2	No	8	0.2989	0.03134	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-11	0.3356	0.1919	2	No	8	0.265	0.07173	0	None	x^2	0.01	Param.
Barium (mg/L)	GSD-AP-MW-12	0.05326	0.03534	2	No	8	0.0443	0.008451	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-2	0.07199	0.04779	2	No	8	0.05989	0.01141	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-3	0.0545	0.0349	2	No	8	0.04208	0.007995	0	None	No	0.004	NP (normality)
Barium (mg/L)	GSD-AP-MW-4	0.2105	0.1697	2	No	8	0.1901	0.01926	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-5	0.2541	0.2214	2	No	8	0.2378	0.01547	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-6	0.07195	0.05493	2	No	8	0.06344	0.008027	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-7	0.09052	0.06963	2	No	8	0.08008	0.009854	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-8	0.2419	0.1559	2	No	8	0.1989	0.04055	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-9	0.198	0.1492	2	No	8	0.1736	0.02303	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-PZ-1	0.1158	0.05981	2	No	8	0.0878	0.02641	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-PZ-5	0.126	0.0535	2	No	8	0.09265	0.03253	0	None	No	0.004	NP (normality)
Barium (mg/L)	GSD-AP-PZ-6	0.03098	0.02862	2	No	8	0.0298	0.00111	0	None	No	0.01	Param.
Cadmium (mg/L)	GSD-AP-MW-12	0.0007255	0.0005028	0.005	No	8	0.0006141	0.0001051	0	None	No	0.01	Param.
Cadmium (mg/L)	GSD-AP-MW-3	0.001	0.000438	0.005	No	8	0.0009298	0.0001987	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GSD-AP-PZ-5	0.001	0.001	0.005	No	8	0.001	0	100	None	No	0.004	NP (NDs)
Chromium (mg/L)	GSD-AP-MW-3	0.01	0.00285	0.1	No	8	0.009106	0.002528	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GSD-AP-MW-1	0.02502	0.01755	0.056	No	8	0.02129	0.003525	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-11	0.00756	0.005	0.056	No	8	0.005444	0.0009226	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GSD-AP-MW-12	0.005756	0.002799	0.056	No	8	0.004278	0.001395	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-2	0.03999	0.02836	0.056	No	8	0.03418	0.005484	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-3	0.02752	0.0203	0.056	No	8	0.02391	0.003408	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-4	0.02748	0.02185	0.056	No	8	0.02466	0.002658	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-5	0.005	0.0021	0.056	No	8	0.00292	0.001286	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GSD-AP-MW-8	0.005	0.00232	0.056	No	8	0.004135	0.001046	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GSD-AP-PZ-5	0.005	0.00202	0.056	No	8	0.003942	0.001461	62.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-1	0.7862	0.2778	5	No	8	0.532	0.2398	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-10	0.6589	0.1703	5	No	8	0.4146	0.2305	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-11	1.372	0.7495	5	No	8	1.061	0.2938	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-12	1.011	0.08069	5	No	8	0.546	0.439	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-2	1.106	0.2261	5	No	8	0.6659	0.4149	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-3	0.8898	0.3042	5	No	8	0.597	0.2763	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-4	1.019	0.1972	5	No	8	0.6082	0.3878	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-5	1.111	0.3764	5	No	8	0.7439	0.3467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-6	0.4122	0.04962	5	No	8	0.2309	0.171	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-7	0.6933	0.1217	5	No	8	0.4075	0.2696	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-8	0.6999	0.3066	5	No	8	0.5033	0.1855	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-9	1.146	0.1227	5	No	8	0.6343	0.4826	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-PZ-1	0.7253	0.06347	5	No	8	0.3944	0.3122	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-PZ-5	0.6882	0.2333	5	No	8	0.4608	0.2146	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-PZ-6	0.5057	-0.03386	5	No	8	0.2359	0.2545	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-1	0.1	0.04	4	No	8	0.07906	0.02435	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GSD-AP-MW-10	0.1118	0.06175	4	No	8	0.08675	0.02359	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-11	0.1	0.06	4	No	8	0.08426	0.01854	37.5	None	No	0.004	NP (normality)

Confidence Intervals - All Results

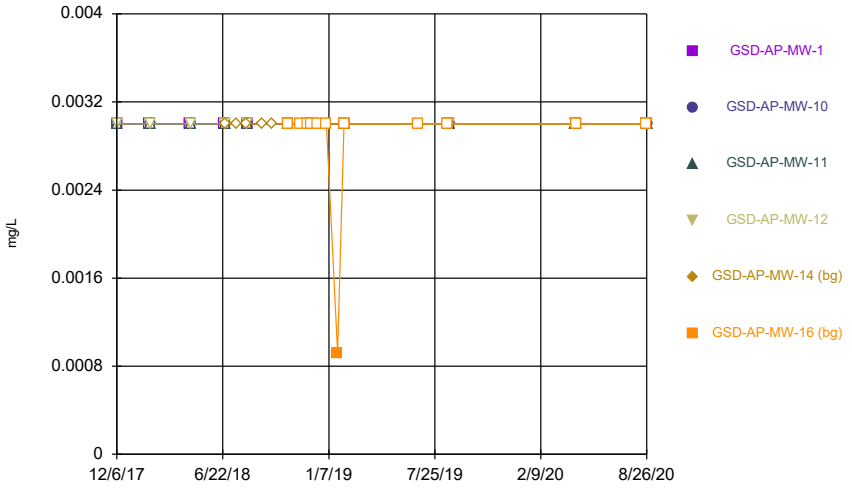
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GSD-AP-MW-12	0.1	0.04	4	No	8	0.0925	0.02121	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GSD-AP-MW-2	0.2715	0.1875	4	No	8	0.2295	0.03967	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-3	0.08951	0.05594	4	No	8	0.08495	0.01992	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-4	0.2553	0.2124	4	No	8	0.2339	0.02025	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-5	0.06986	0.04992	4	No	8	0.05989	0.009408	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-6	0.1	0.05	4	No	8	0.08121	0.02194	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GSD-AP-MW-7	0.1	0.06	4	No	8	0.08599	0.01634	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GSD-AP-MW-8	0.1079	0.07227	4	No	8	0.09006	0.01678	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-9	0.1423	0.08335	4	No	8	0.1123	0.03357	12.5	None	x^2	0.01	Param.
Fluoride (mg/L)	GSD-AP-PZ-1	0.1245	0.08537	4	No	8	0.1049	0.01843	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-PZ-5	0.1	0.04	4	No	8	0.085	0.02777	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GSD-AP-PZ-6	0.1	0.04	4	No	8	0.085	0.02777	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	**GSD-AP-MW-2**	**0.07593**	**0.04207**	**0.04**	**Yes**	**8**	**0.059**	**0.01597**	**0**	**None**	**No**	**0.01**	**Param.**
Mercury (mg/L)	GSD-AP-MW-10	0.0005	0.000302	0.002	No	8	0.0004753	0.00007	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	GSD-AP-MW-7	0.0005	0.00034	0.002	No	8	0.00048	0.00005657	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	GSD-AP-MW-8	0.0005	0.000284	0.002	No	8	0.000473	0.00007637	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GSD-AP-MW-2	0.0282	0.0159	0.1	No	8	0.02205	0.005798	0	None	No	0.01	Param.
Thallium (mg/L)	GSD-AP-MW-2	0.001	0.000213	0.002	No	8	0.000557	0.0003692	37.5	None	No	0.004	NP (normality)

FIGURE A.

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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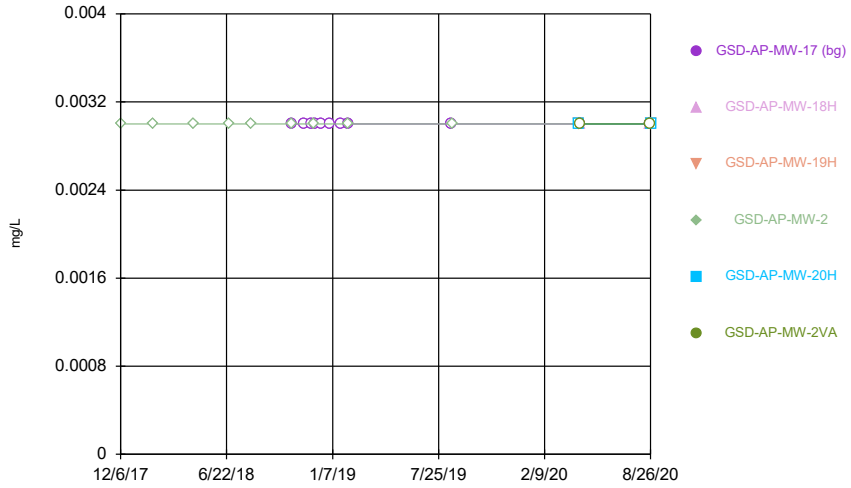

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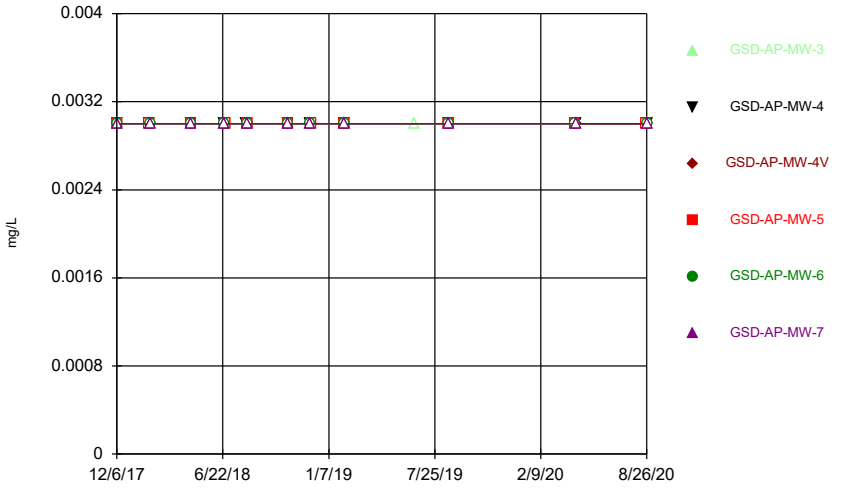

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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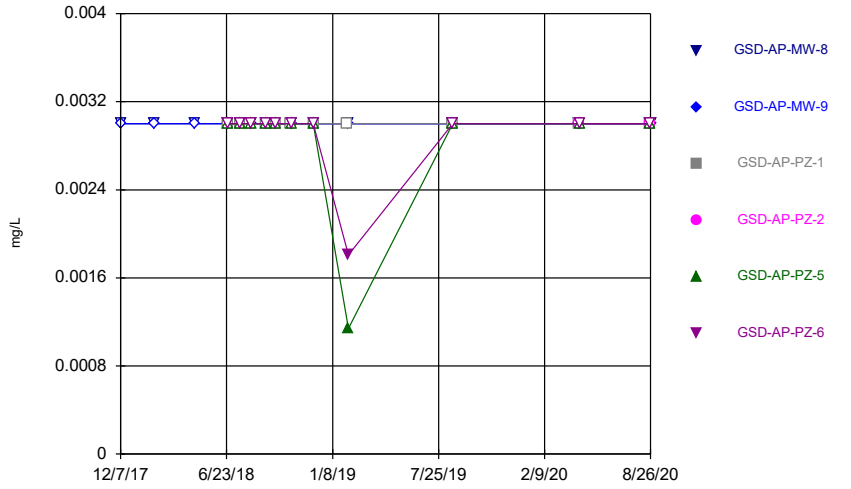

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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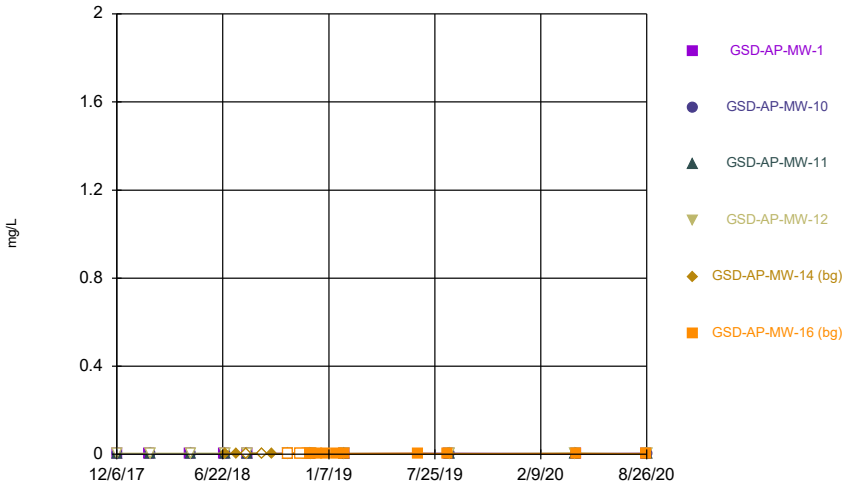

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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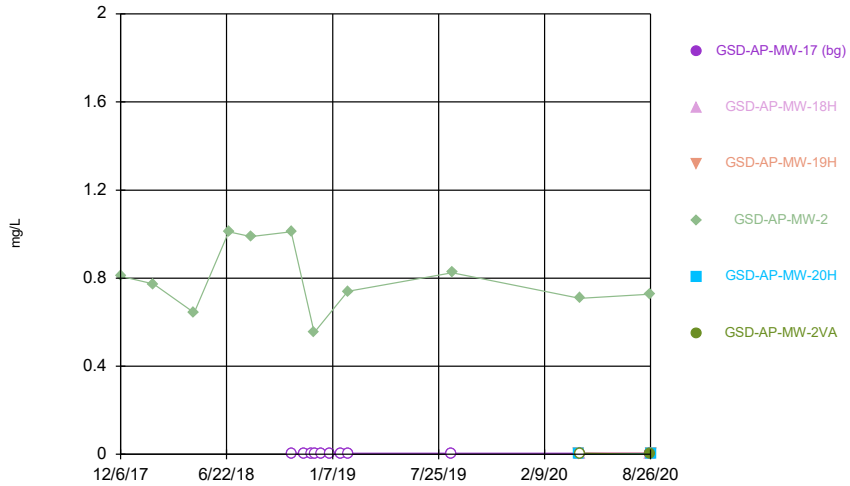

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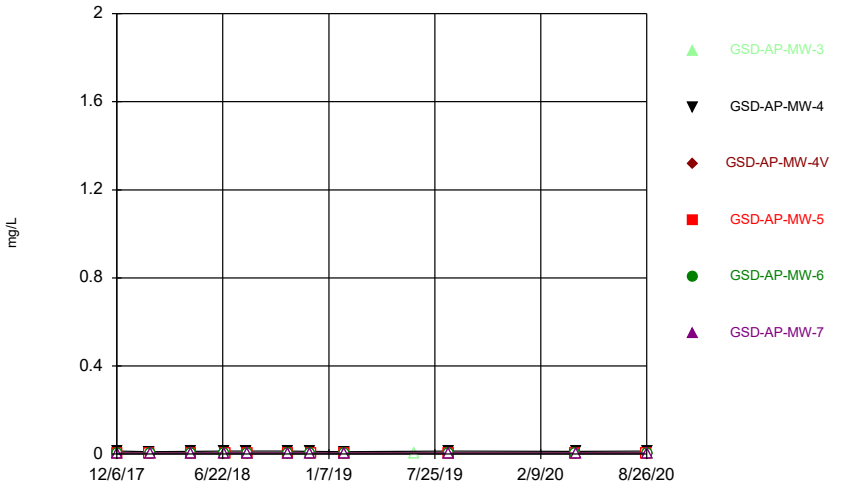

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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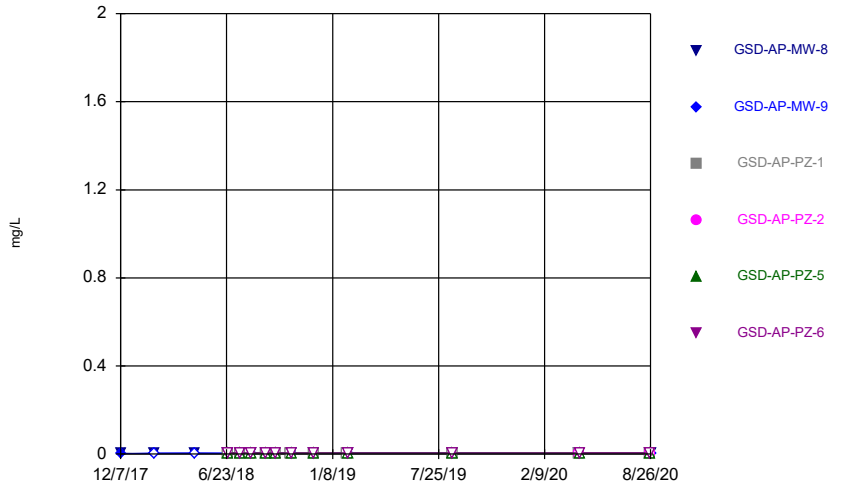

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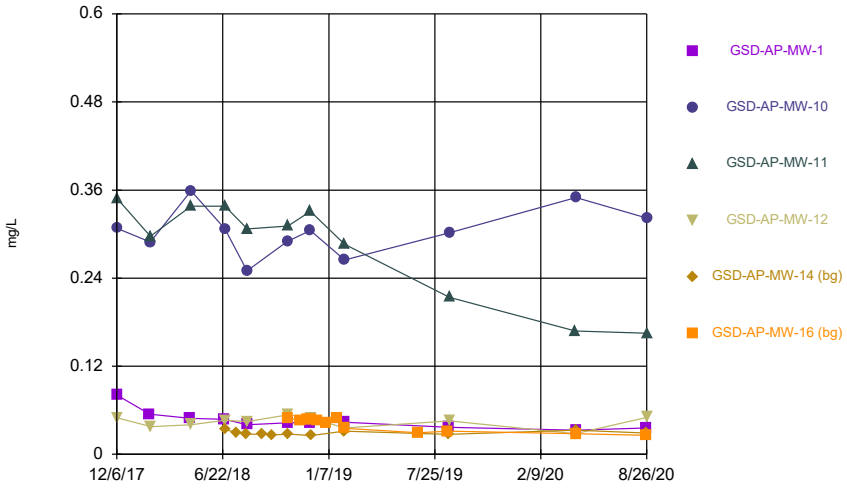
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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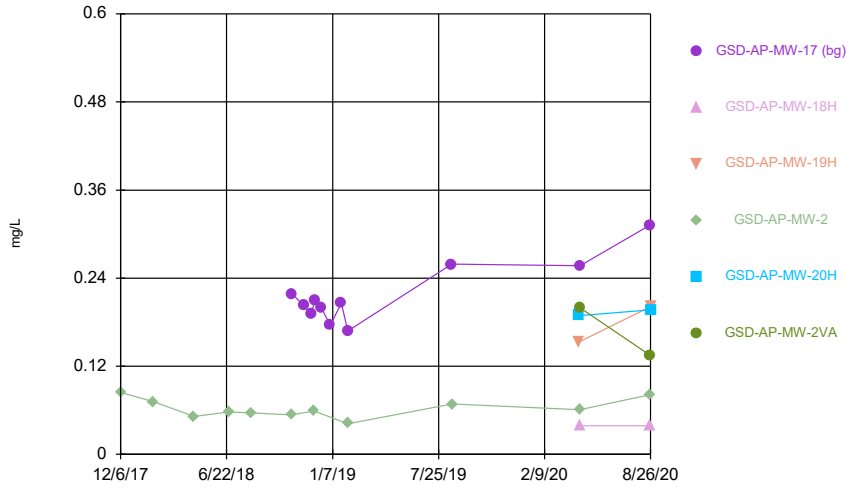
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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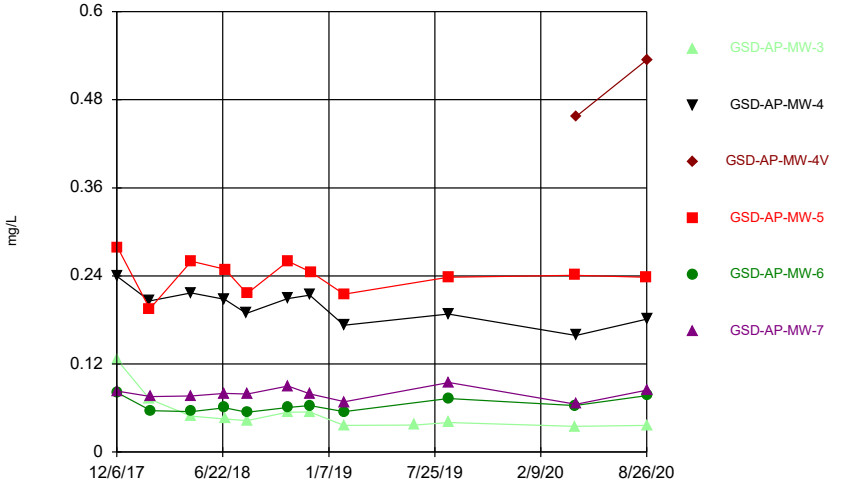
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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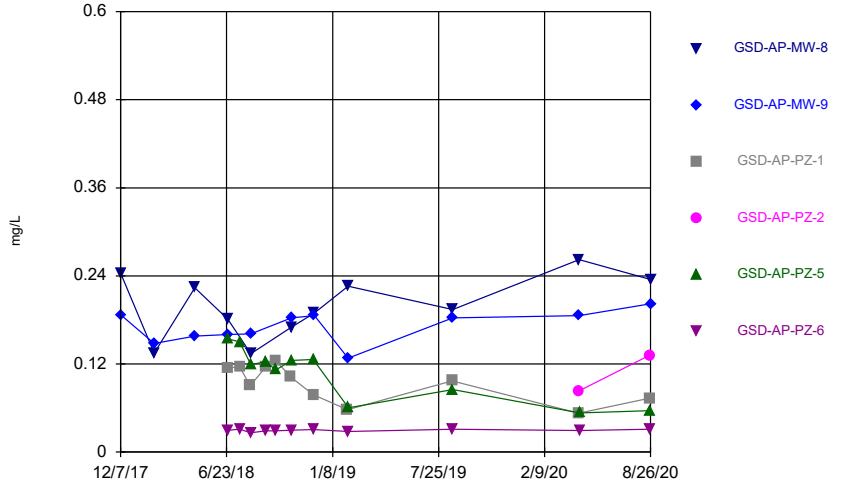
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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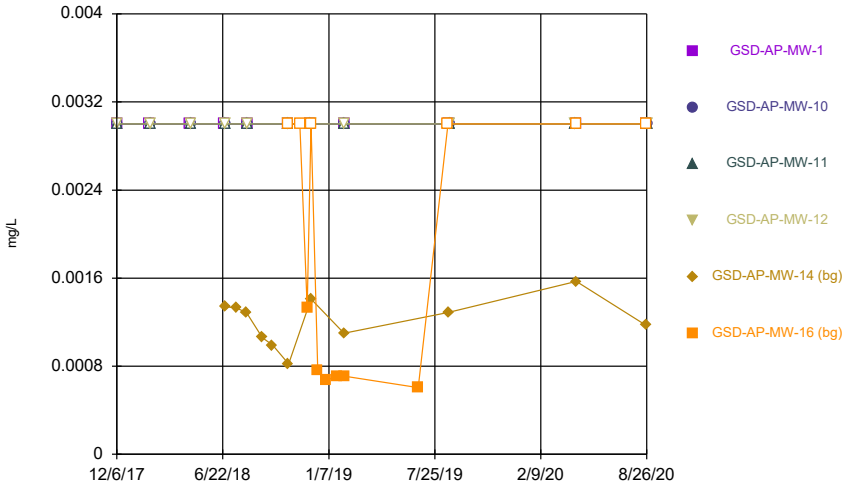

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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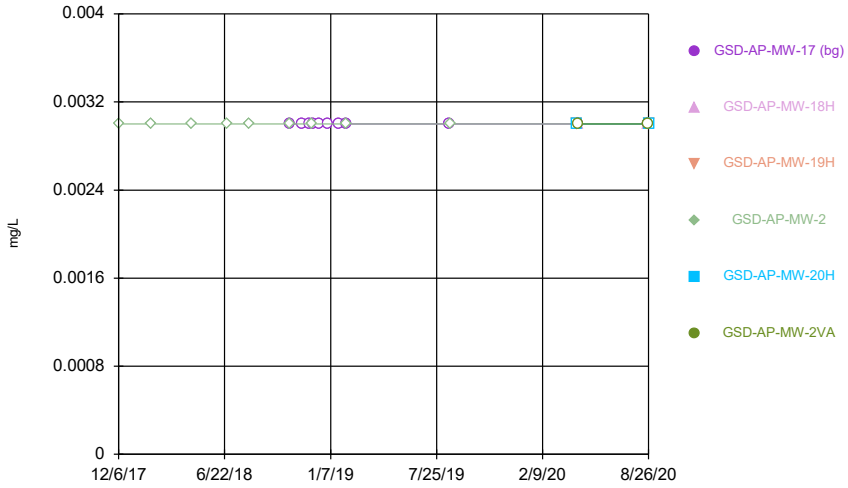

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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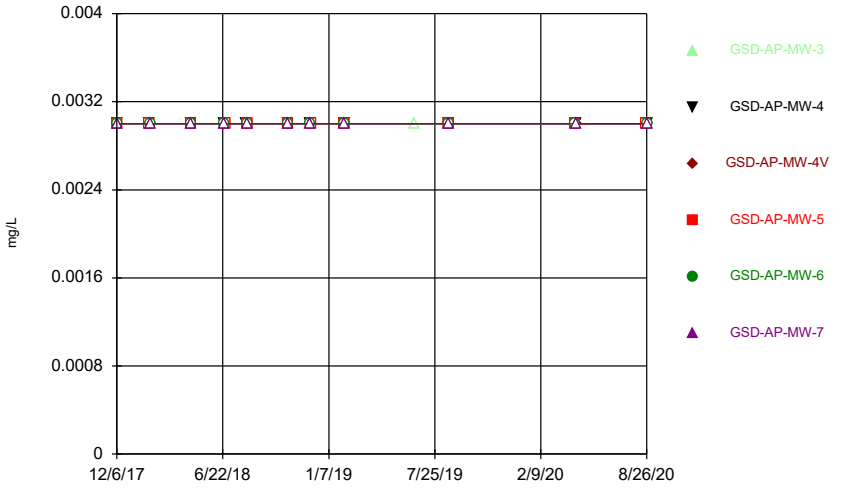

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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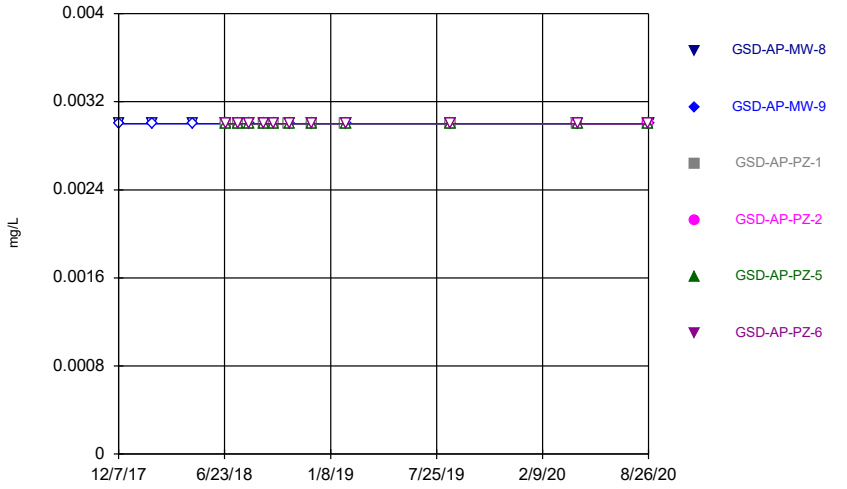

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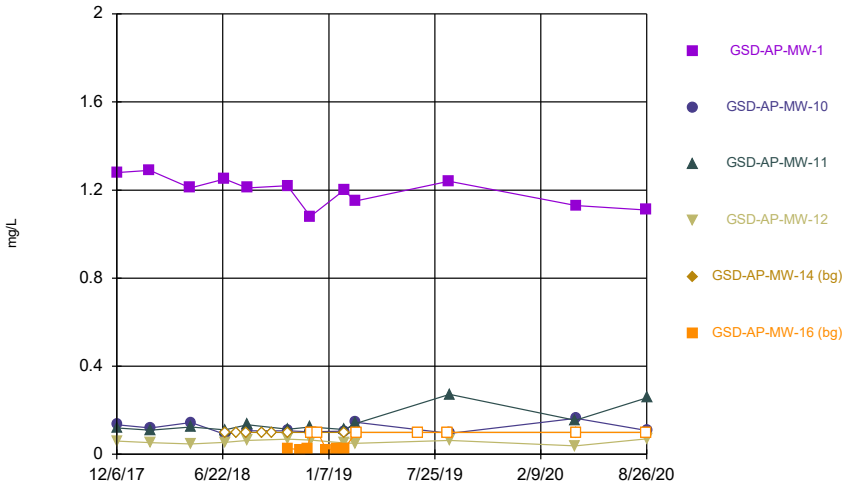

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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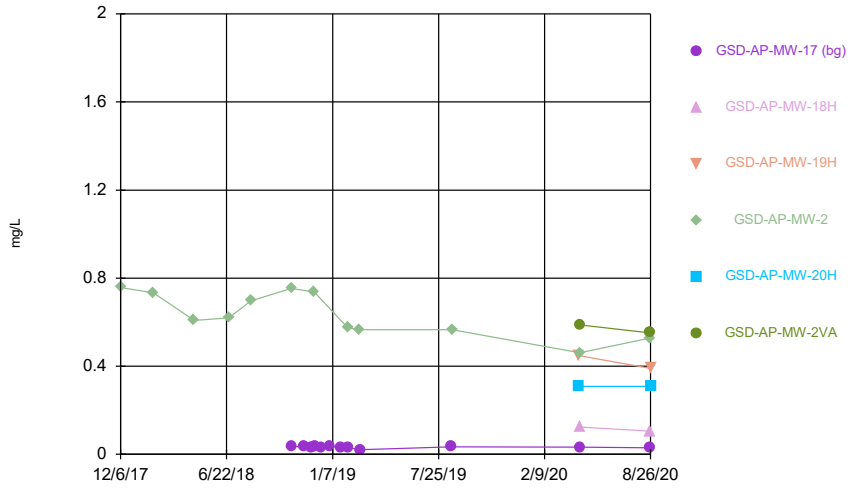

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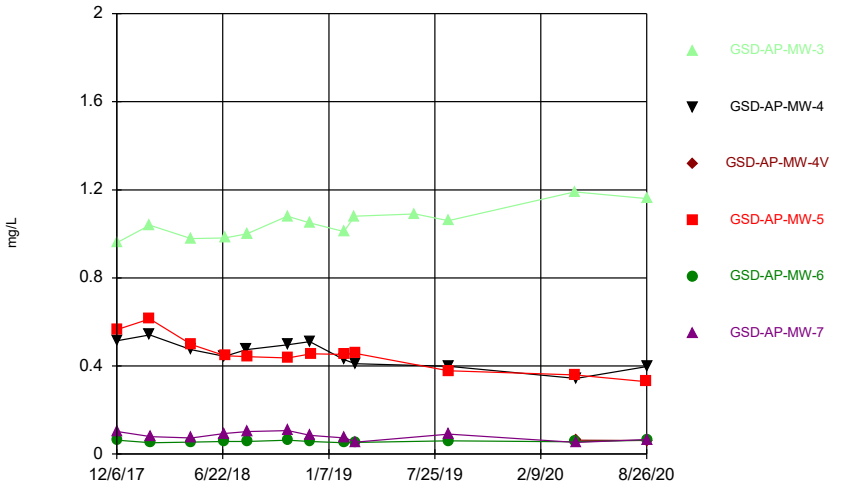

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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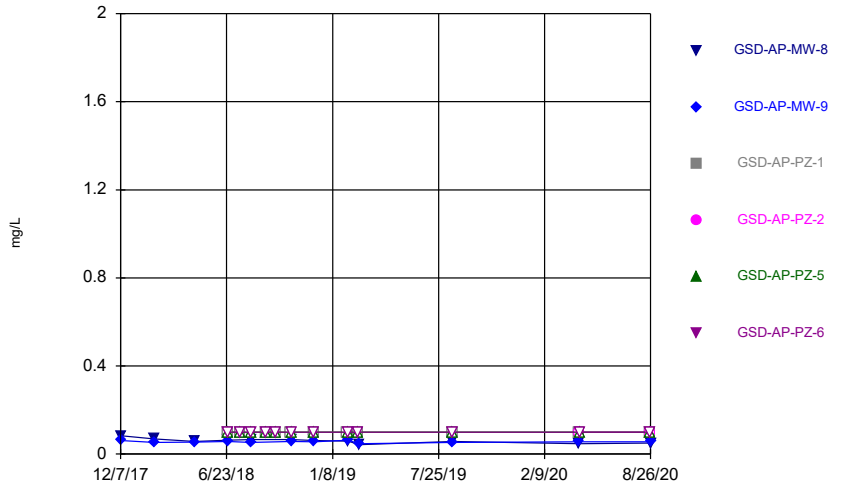

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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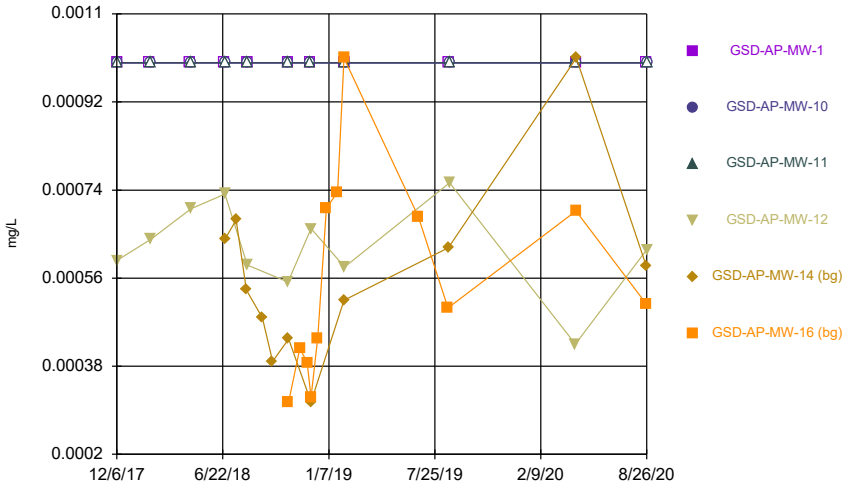

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
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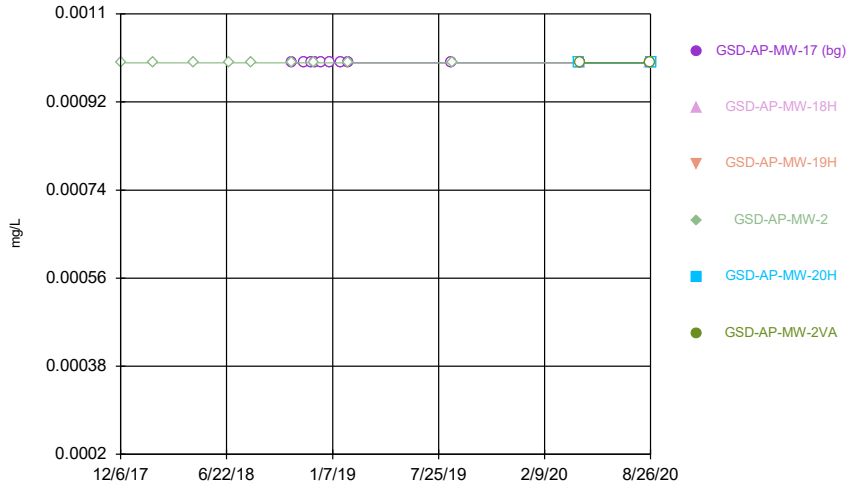
Time Series



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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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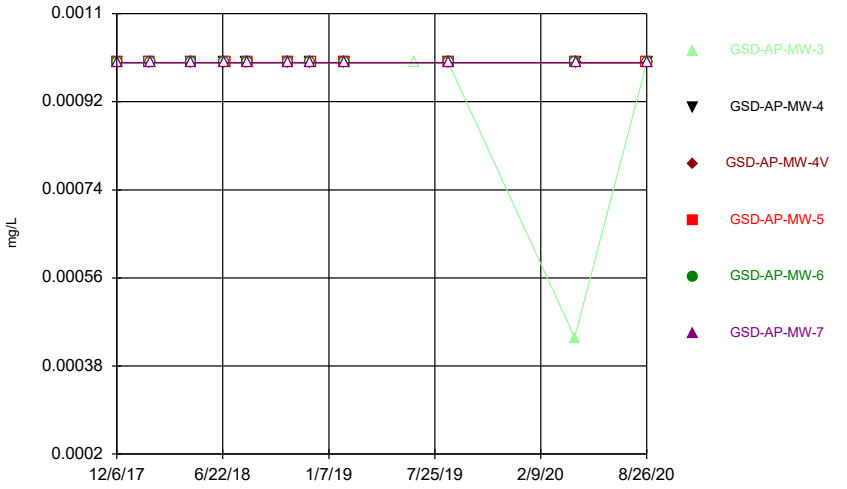

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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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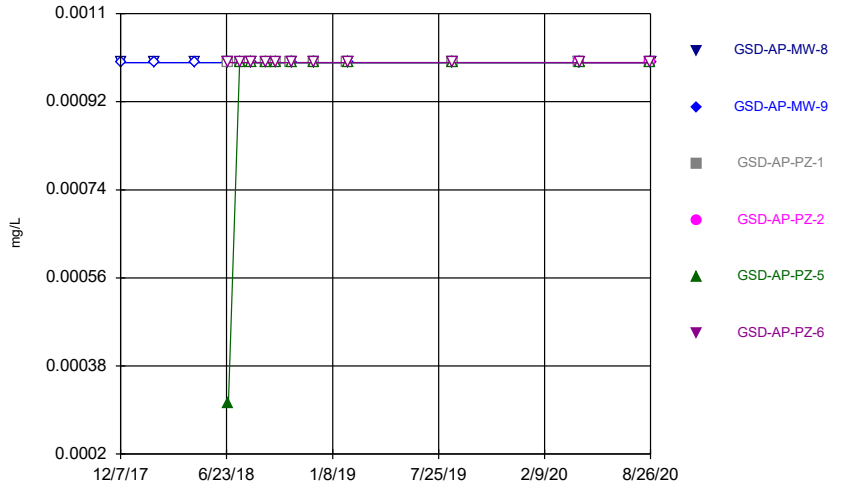

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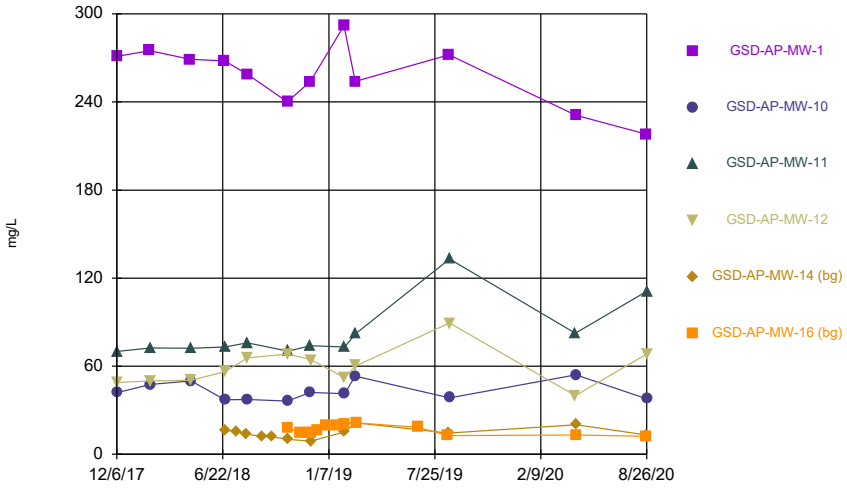
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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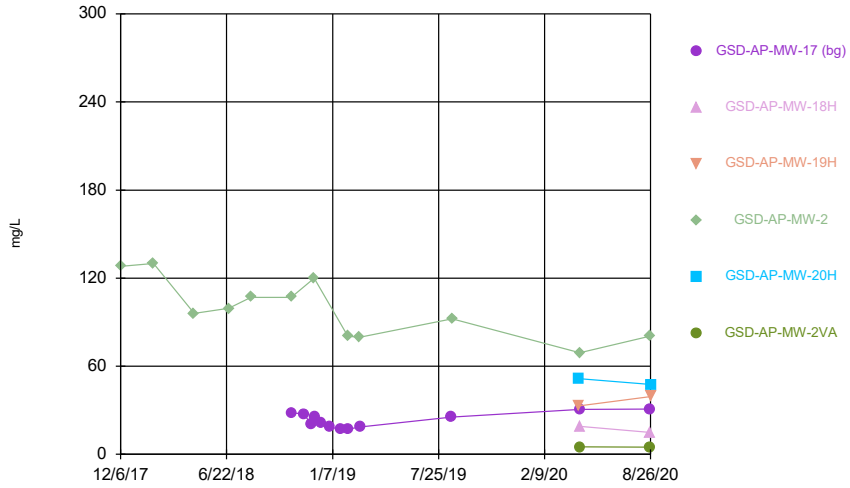
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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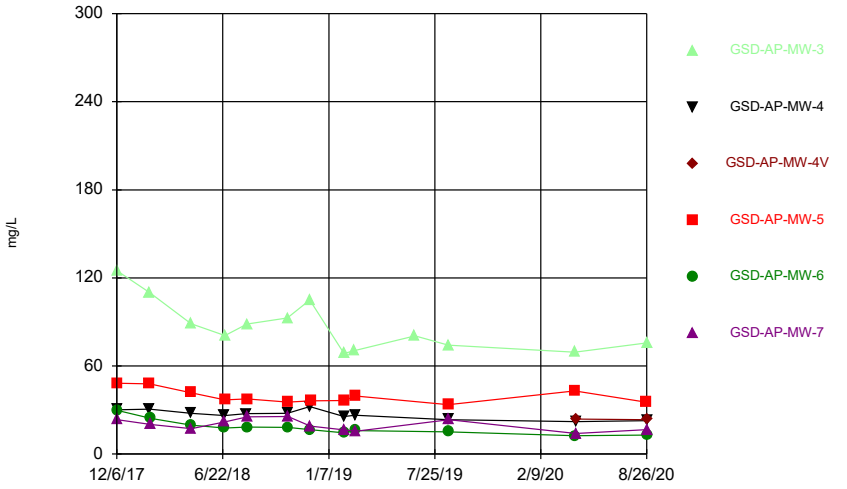
Time Series



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Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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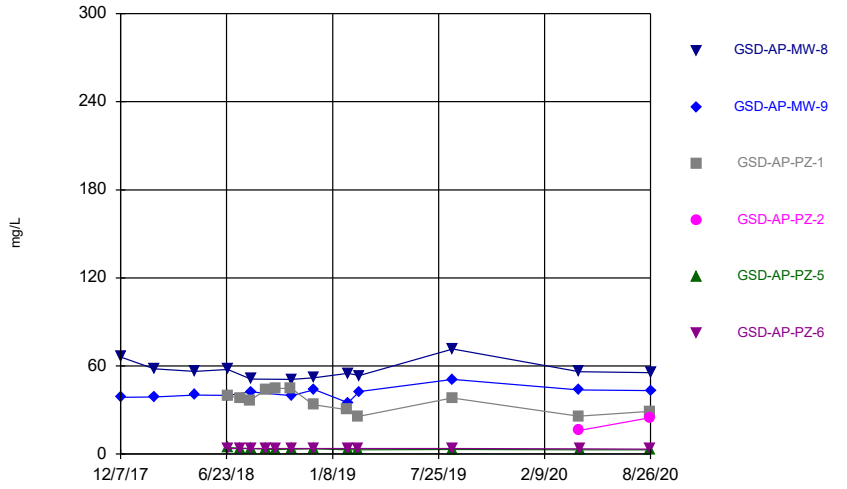

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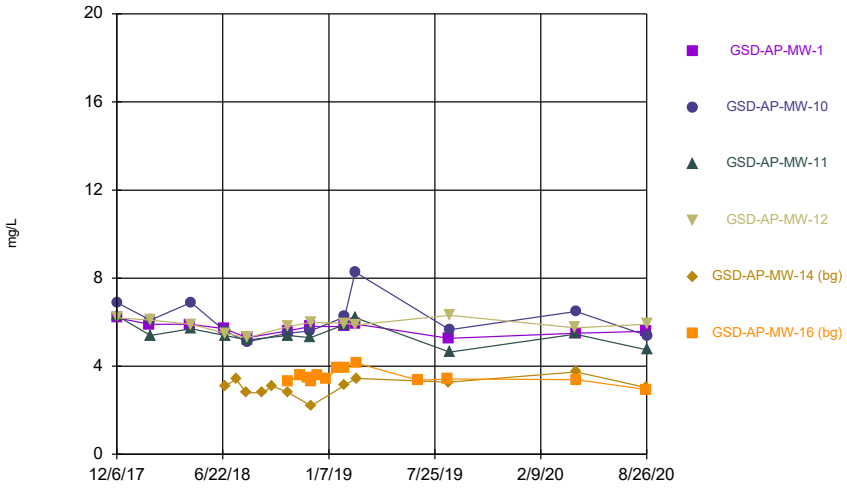
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series

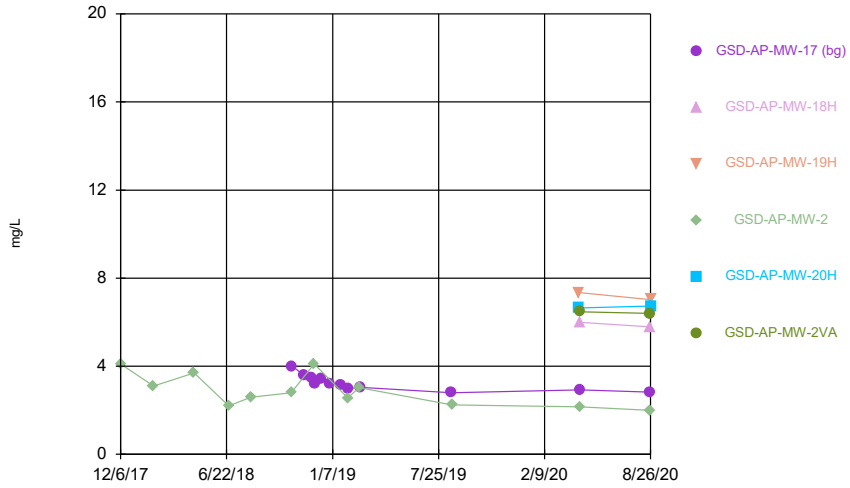


Constituent: Chloride Analysis Run 11/4/2020 3:03 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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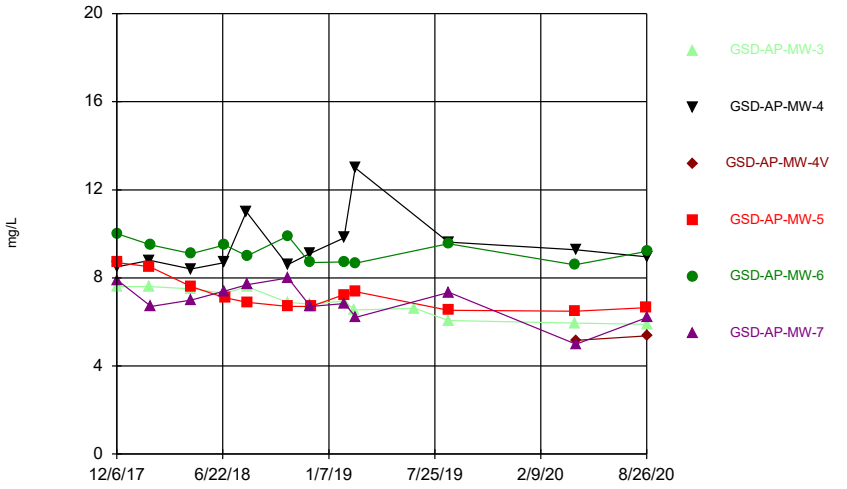
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



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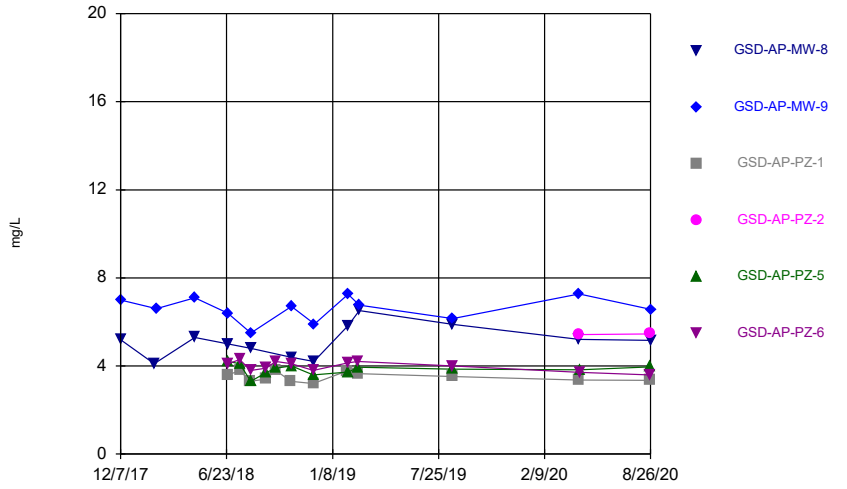
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series

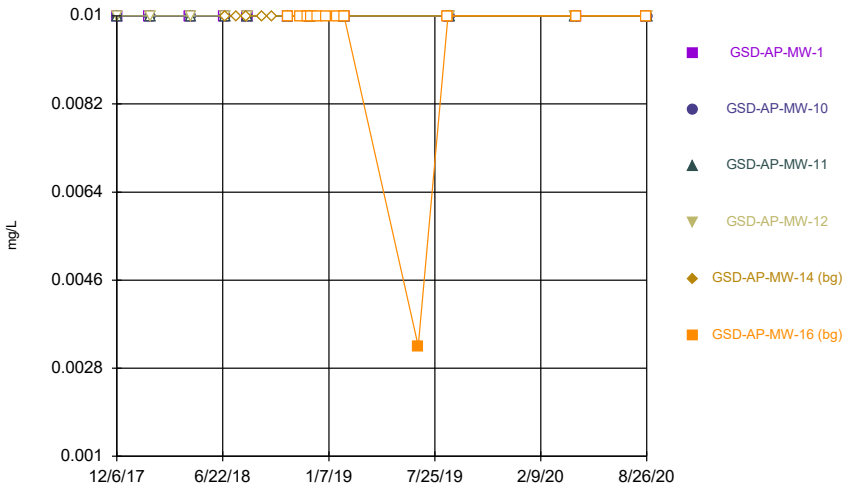


Constituent: Chloride Analysis Run 11/4/2020 3:03 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

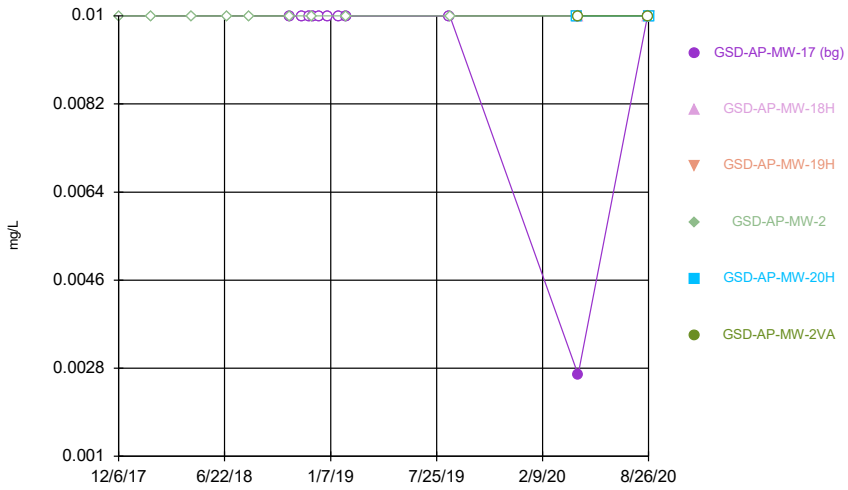
Time Series



Constituent: Chromium Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

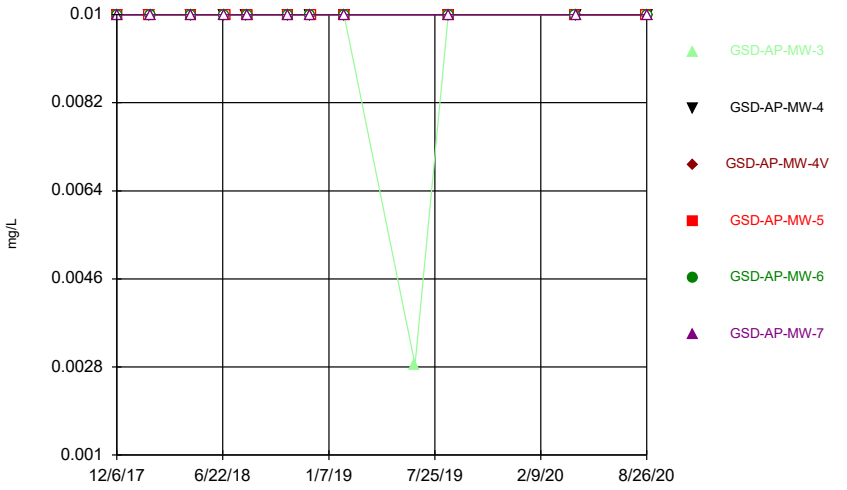
Time Series



Constituent: Chromium Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

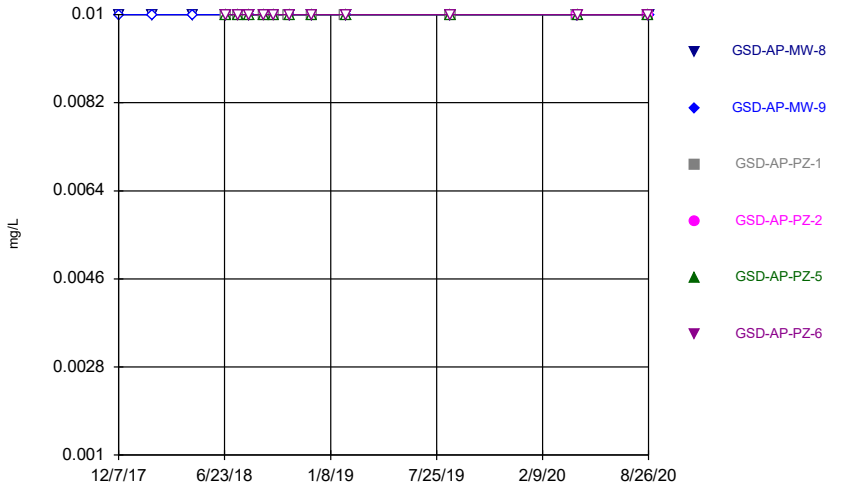
Time Series



Constituent: Chromium Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

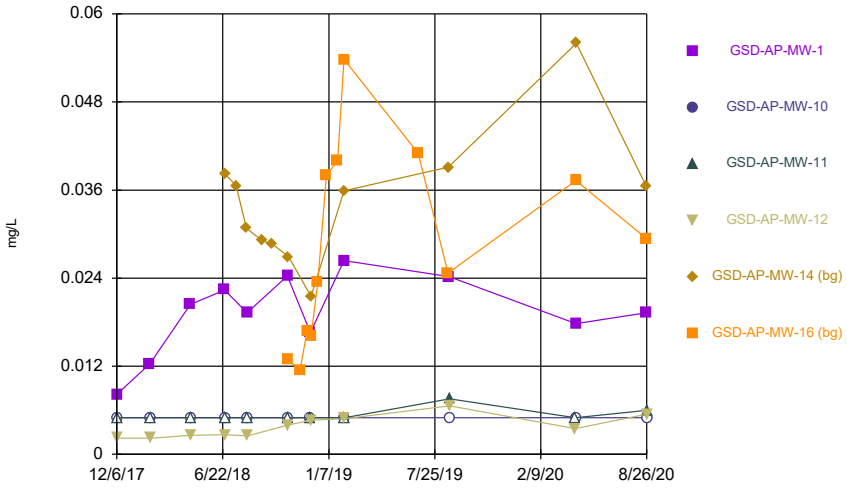
Time Series



Constituent: Chromium Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

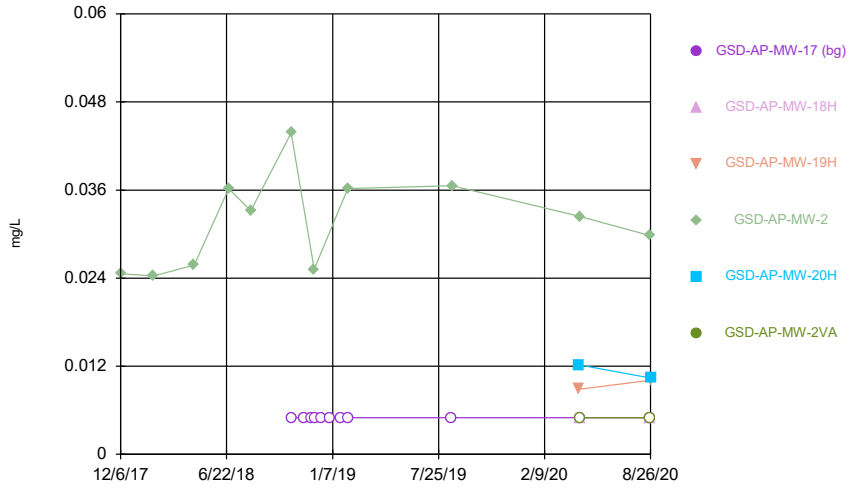
Time Series



Constituent: Cobalt Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

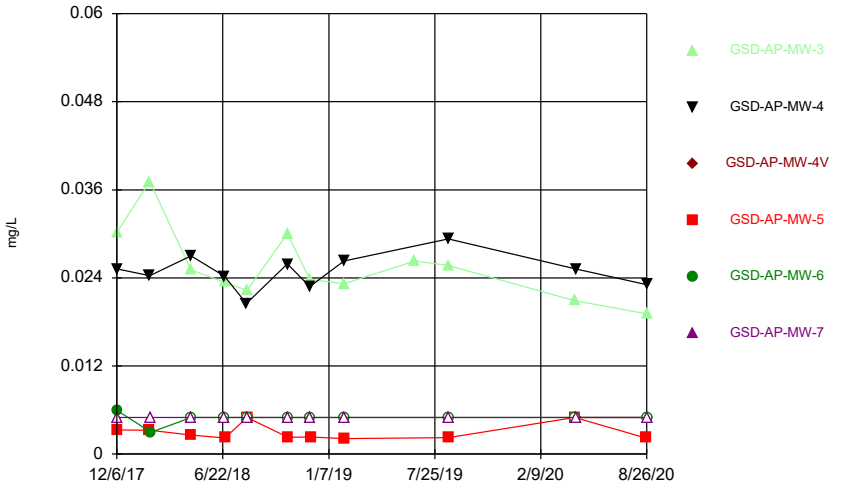
Time Series



Constituent: Cobalt Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

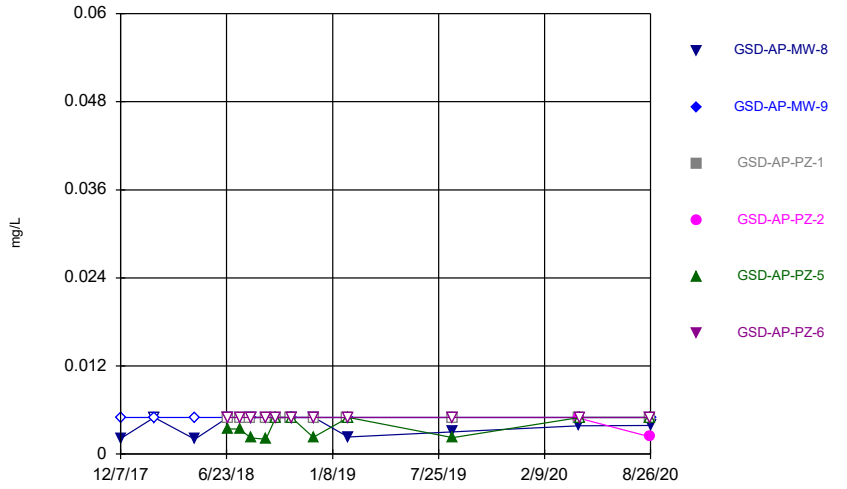
Time Series



Constituent: Cobalt Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

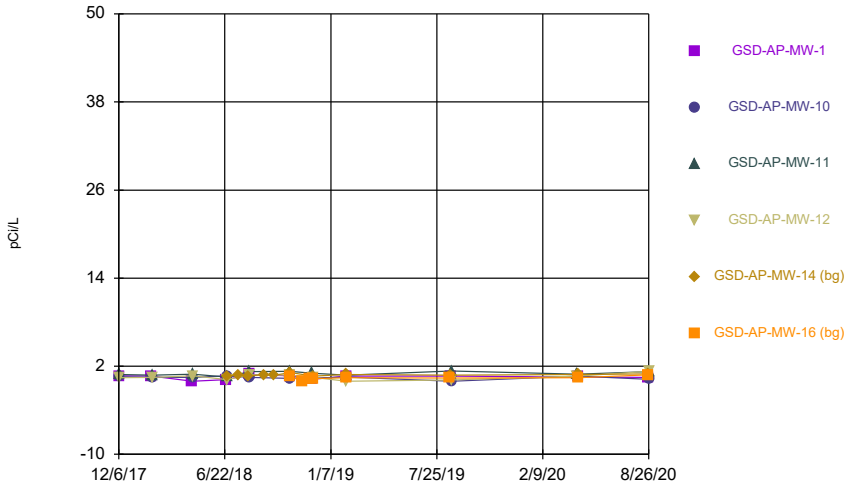
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

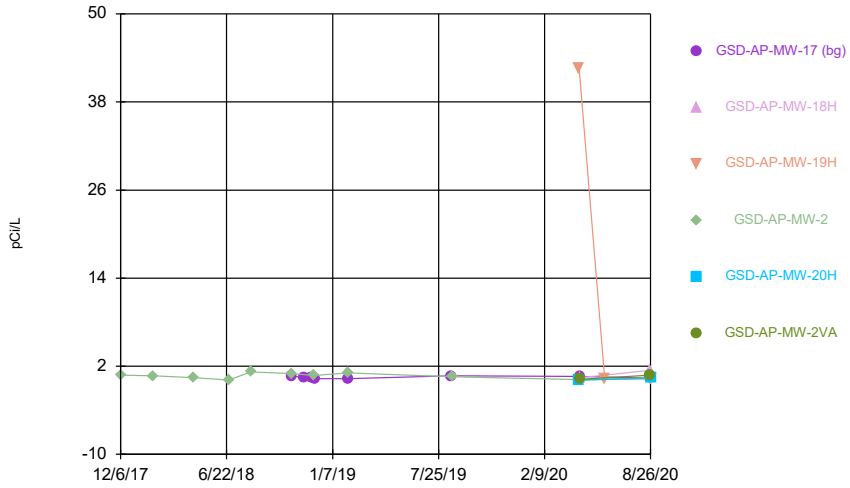
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

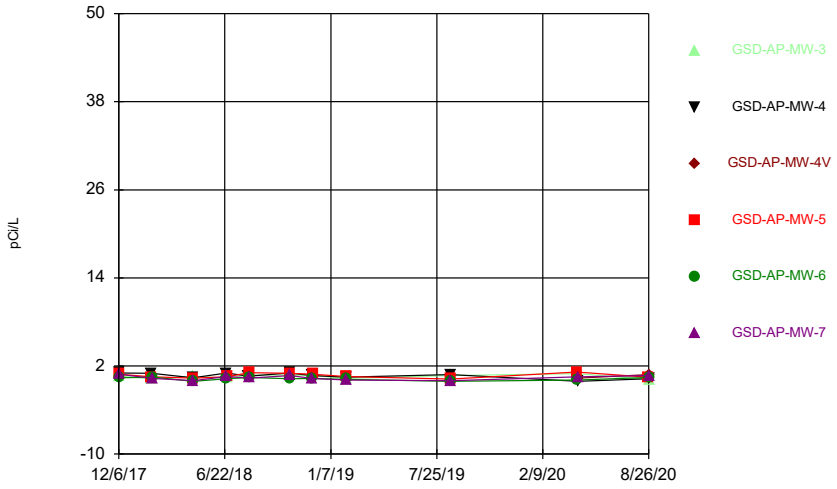
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

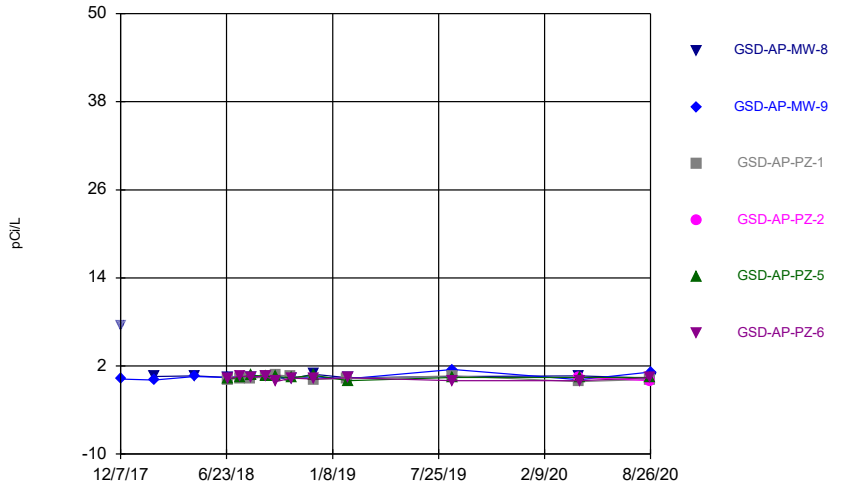
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

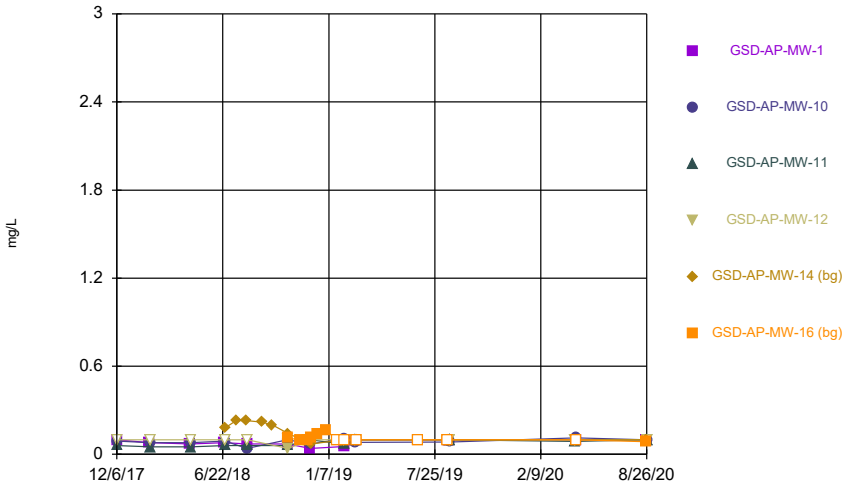
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

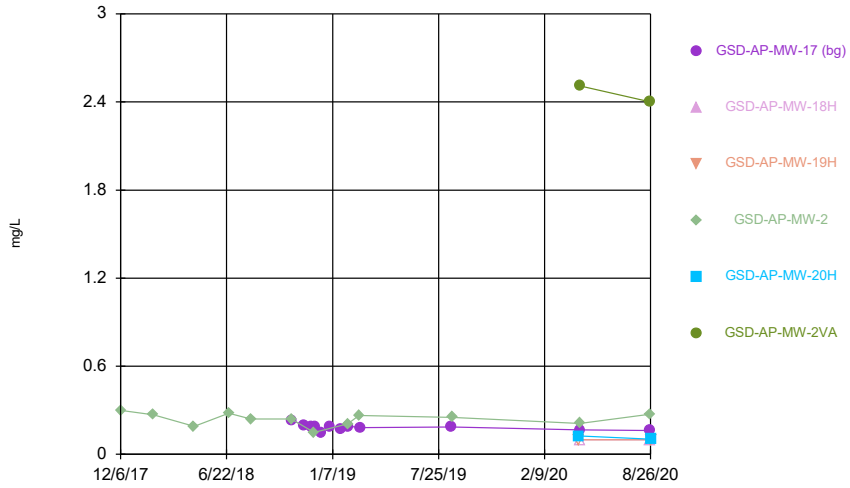
Time Series



Constituent: Fluoride Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

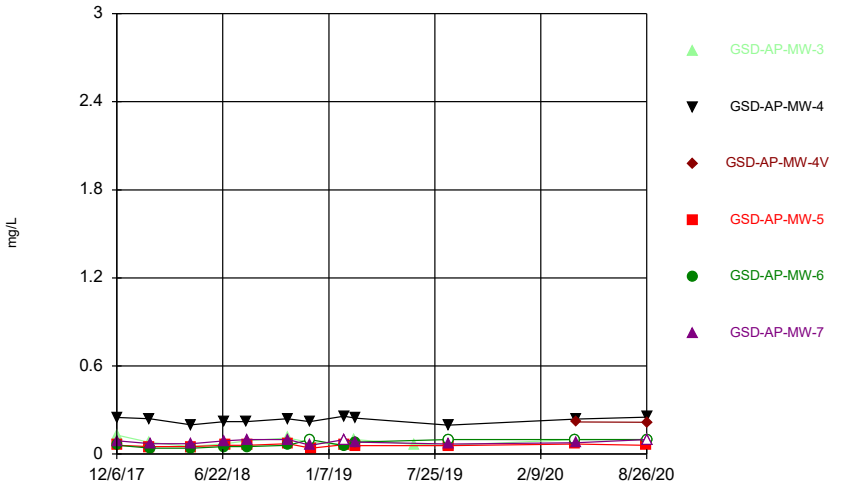
Time Series



Constituent: Fluoride Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

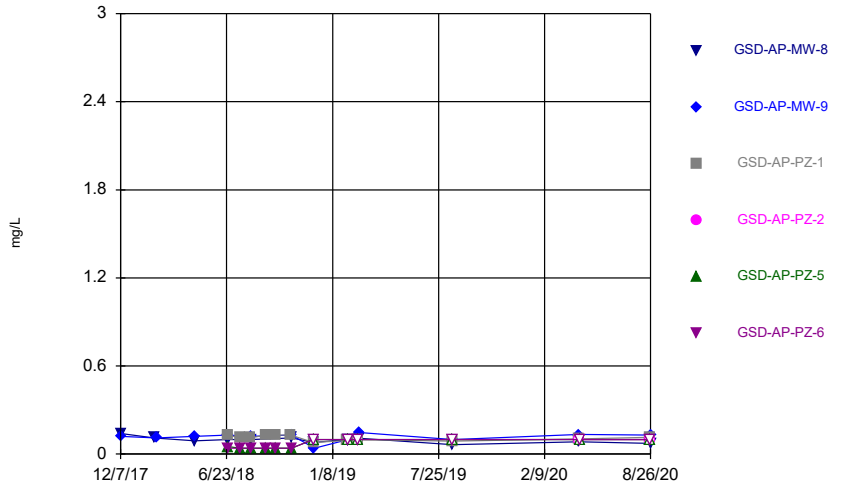
Time Series



Constituent: Fluoride Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

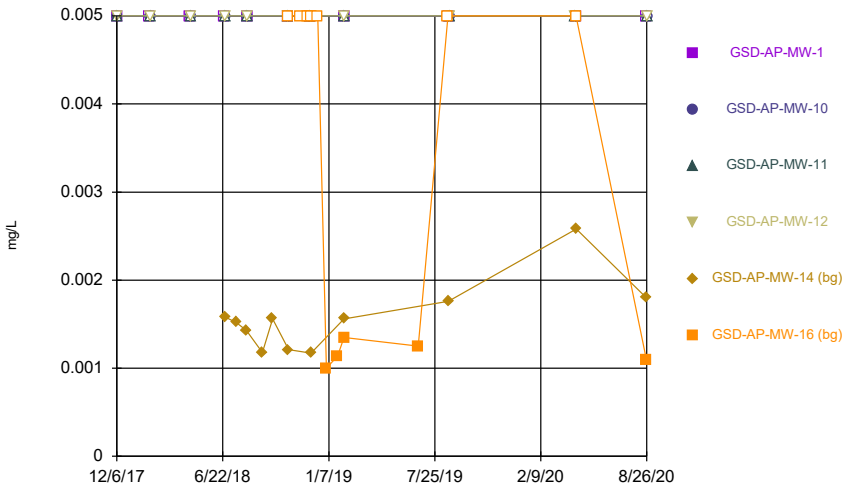
Time Series



Constituent: Fluoride Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

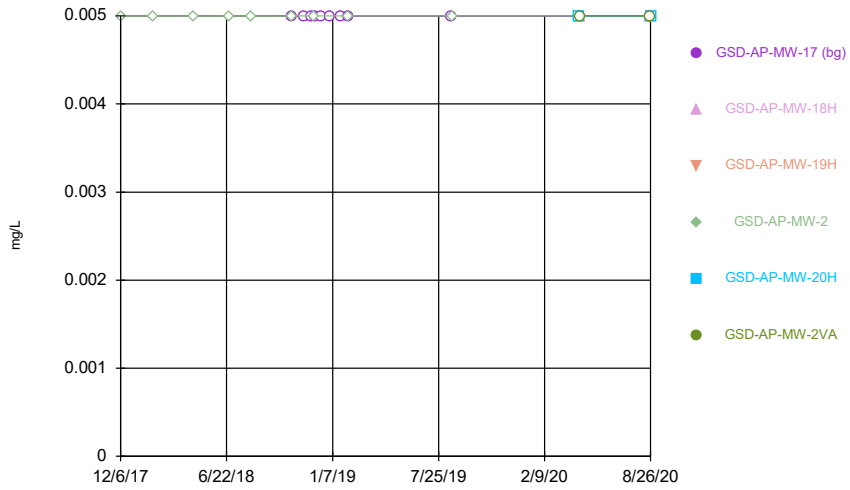
Time Series



Constituent: Lead Analysis Run 11/4/2020 3:03 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

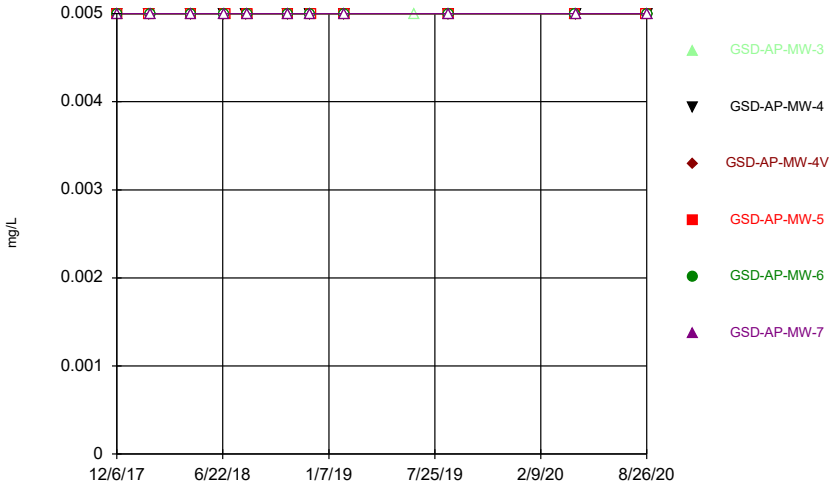
Time Series



Constituent: Lead Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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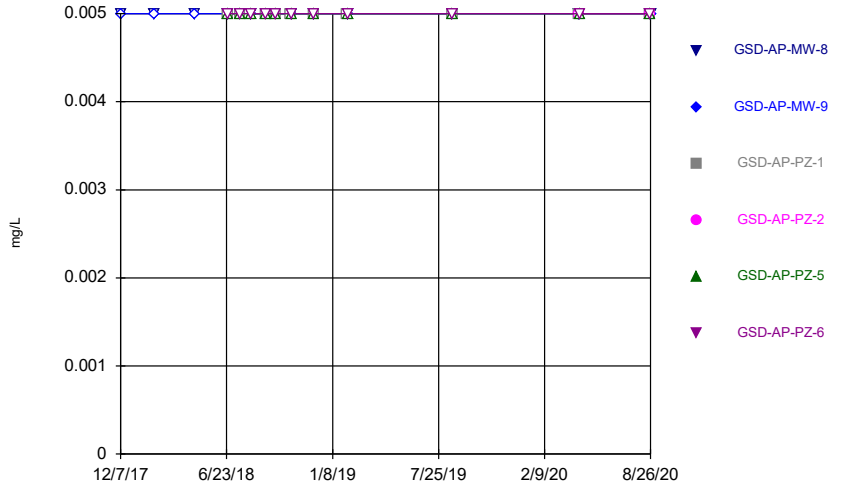
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

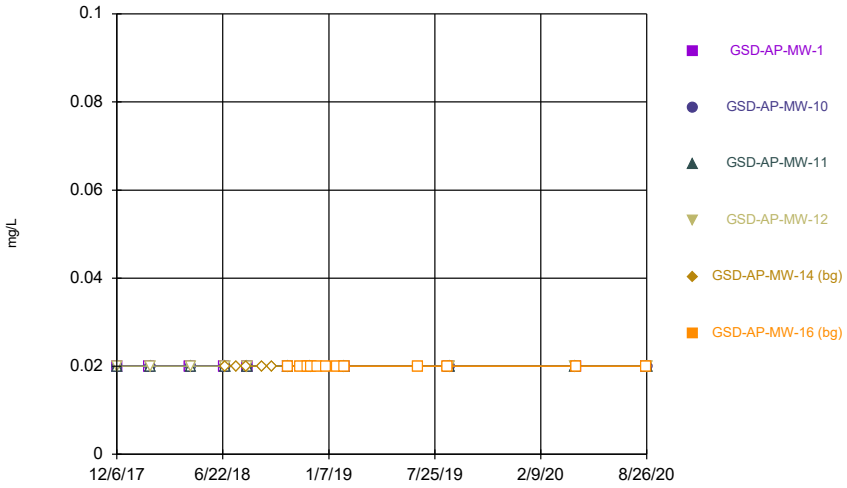
Time Series



Constituent: Lead Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

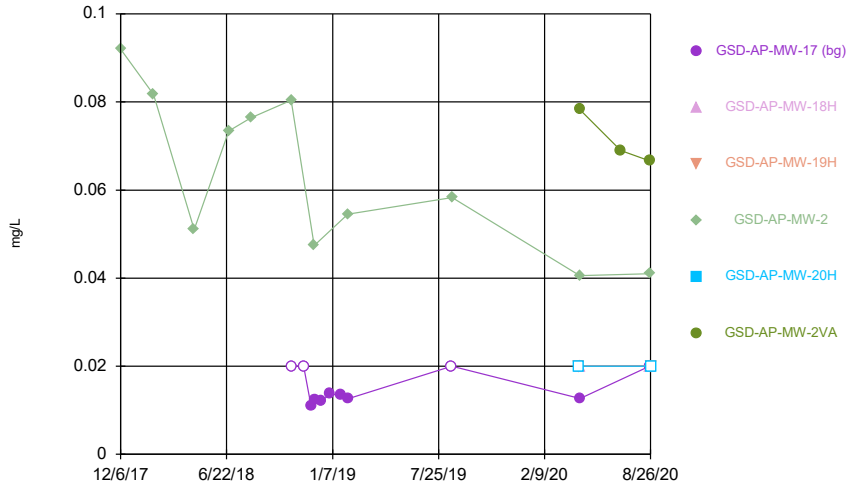
Time Series



Constituent: Lithium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

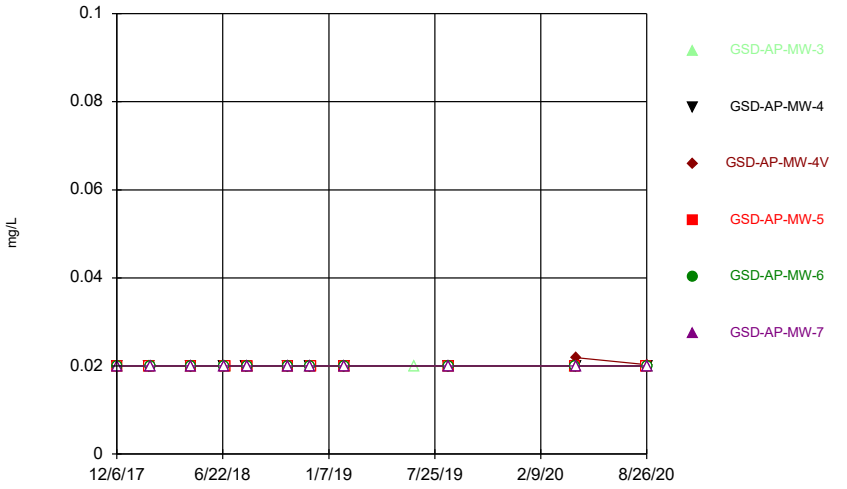
Time Series



Constituent: Lithium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

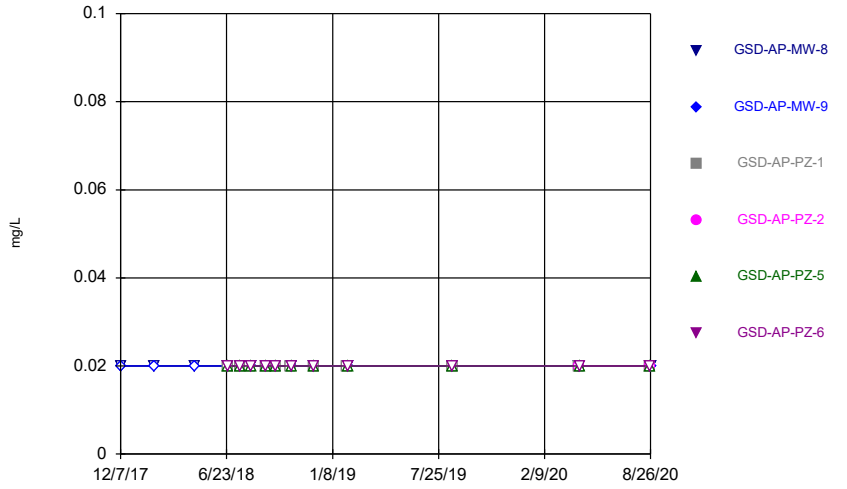
Time Series



Constituent: Lithium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

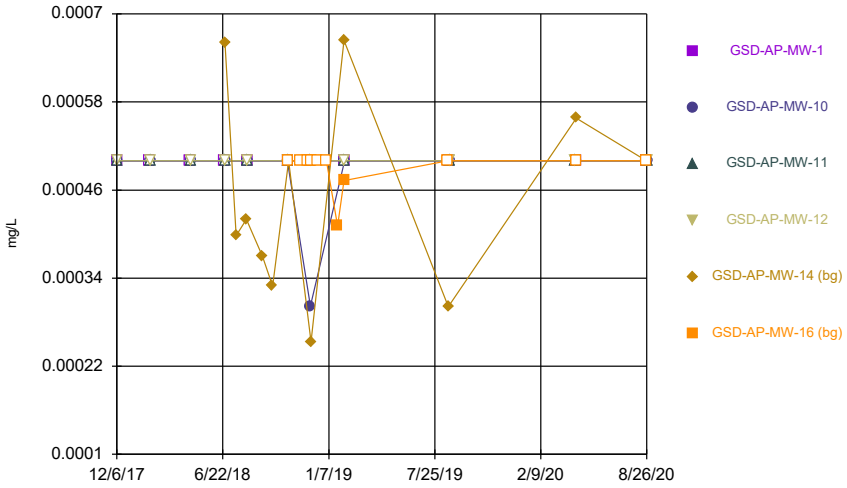
Time Series



Constituent: Lithium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

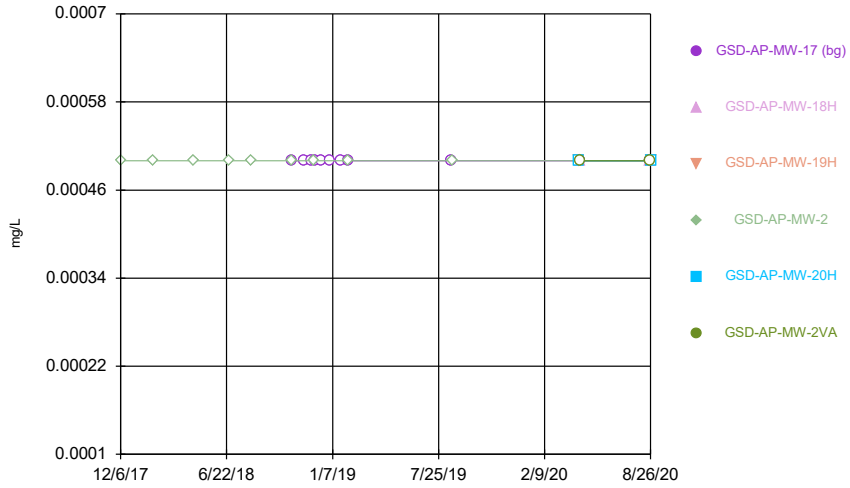
Time Series



Constituent: Mercury Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

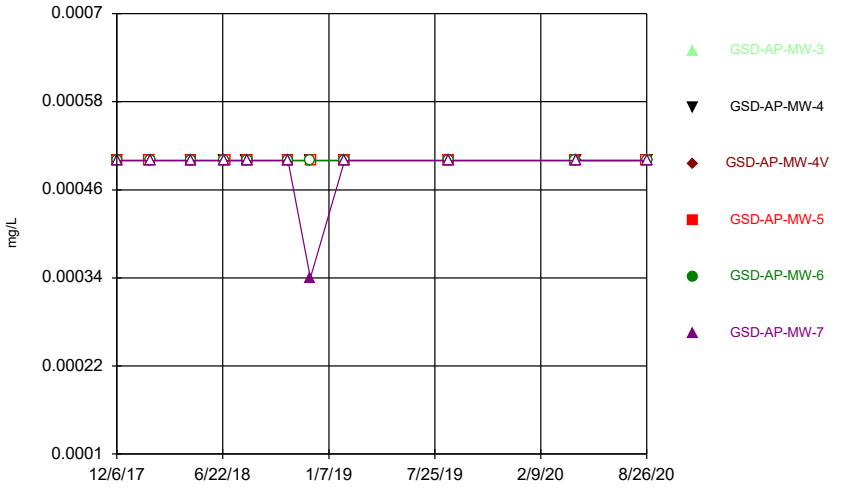
Time Series



Constituent: Mercury Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

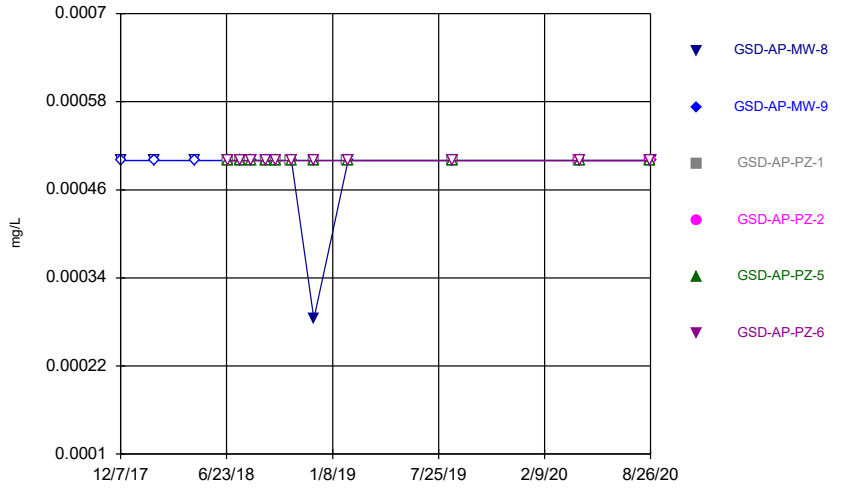
Time Series



Constituent: Mercury Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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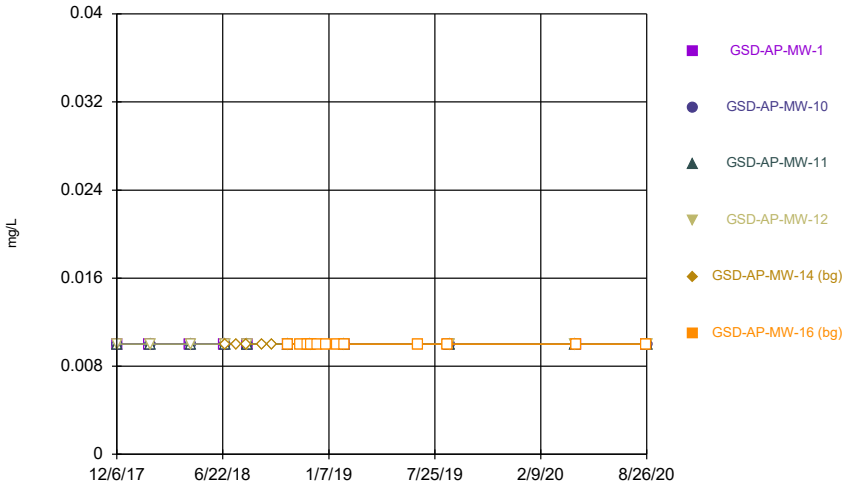
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

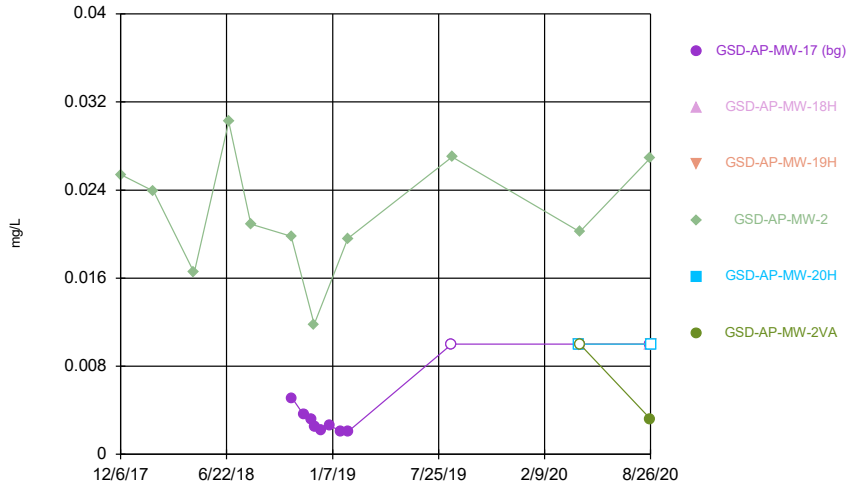
Time Series



Constituent: Molybdenum Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

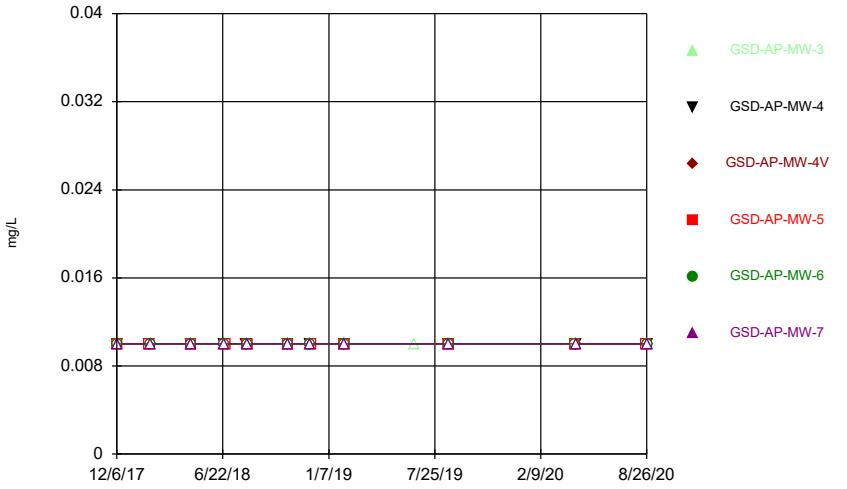
Time Series



Constituent: Molybdenum Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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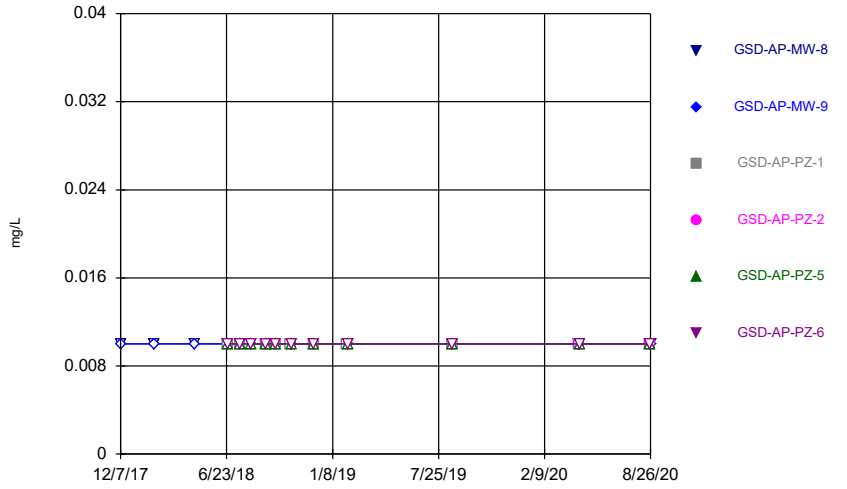
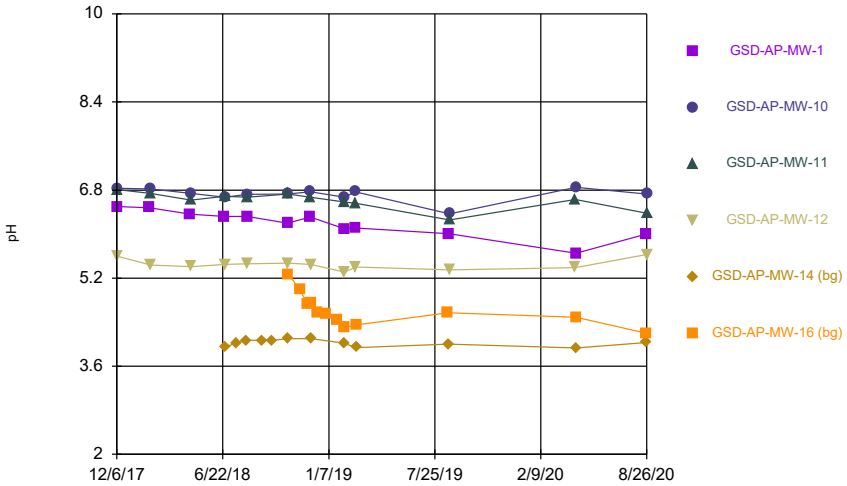


Constituent: Molybdenum Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series

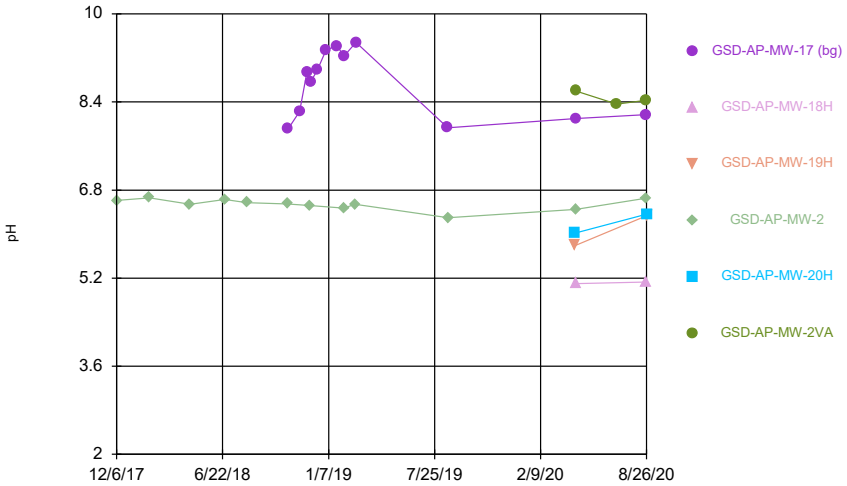


Constituent: pH Analysis Run 11/4/2020 3:04 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series

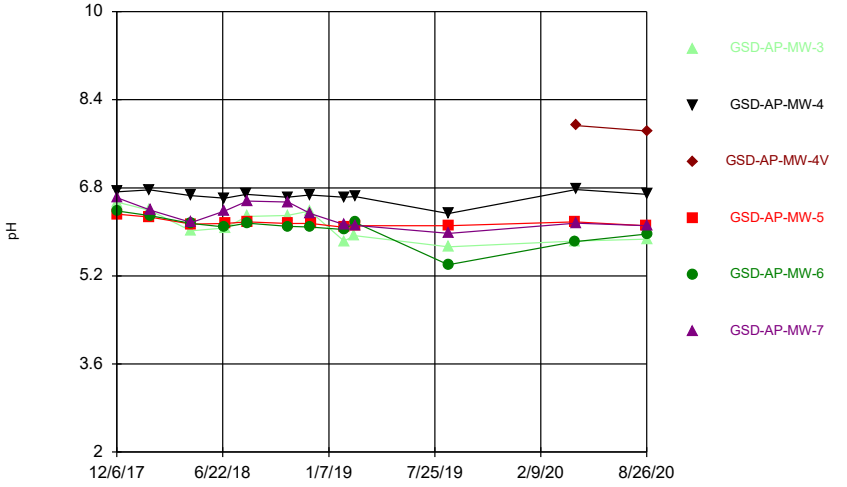


Constituent: pH Analysis Run 11/4/2020 3:04 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series

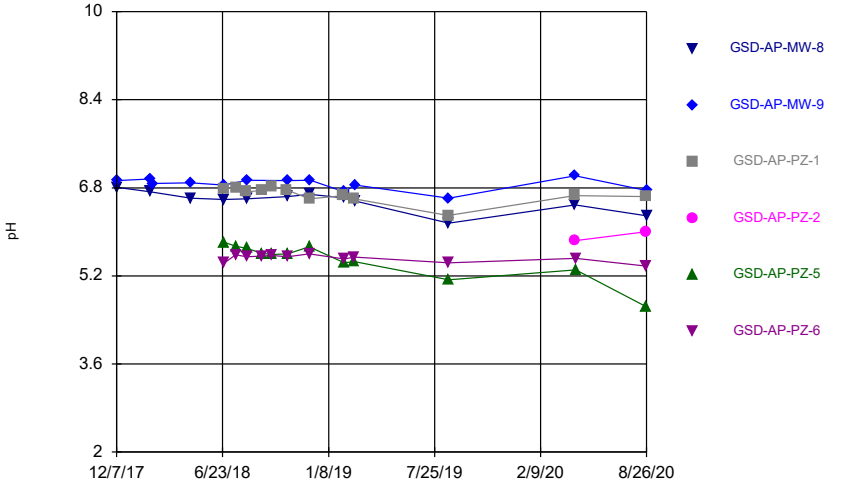


Constituent: pH Analysis Run 11/4/2020 3:04 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series

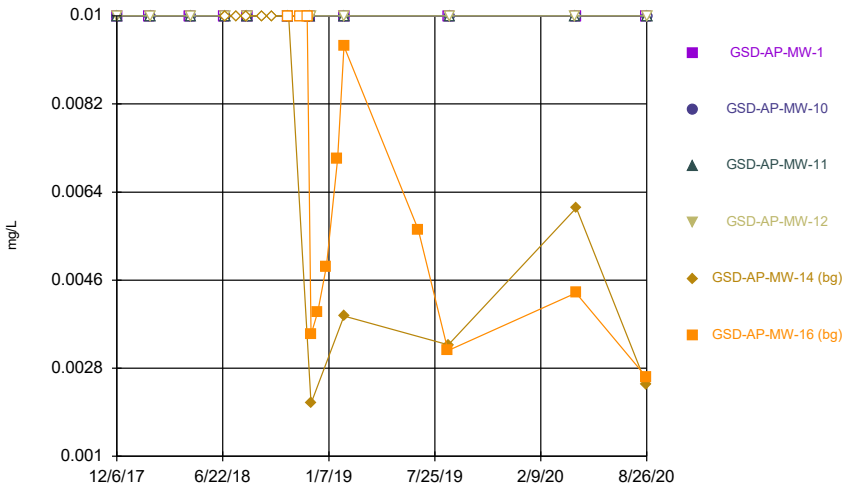


Constituent: pH Analysis Run 11/4/2020 3:04 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

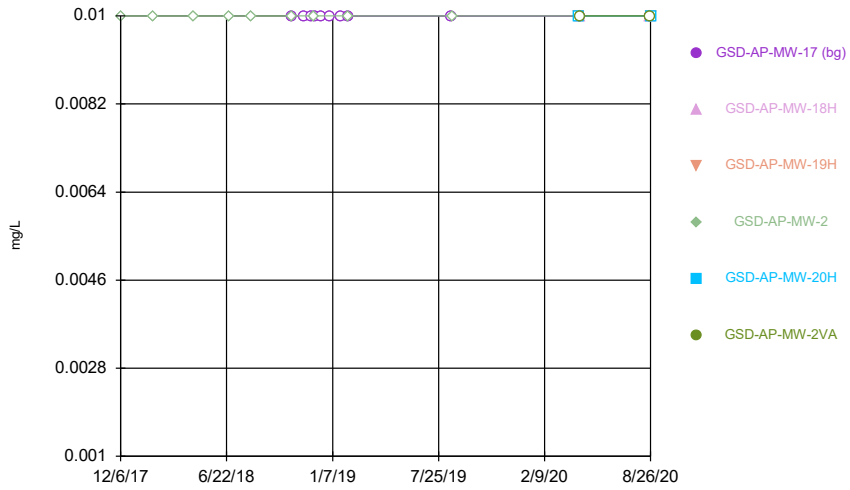
Time Series



Constituent: Selenium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

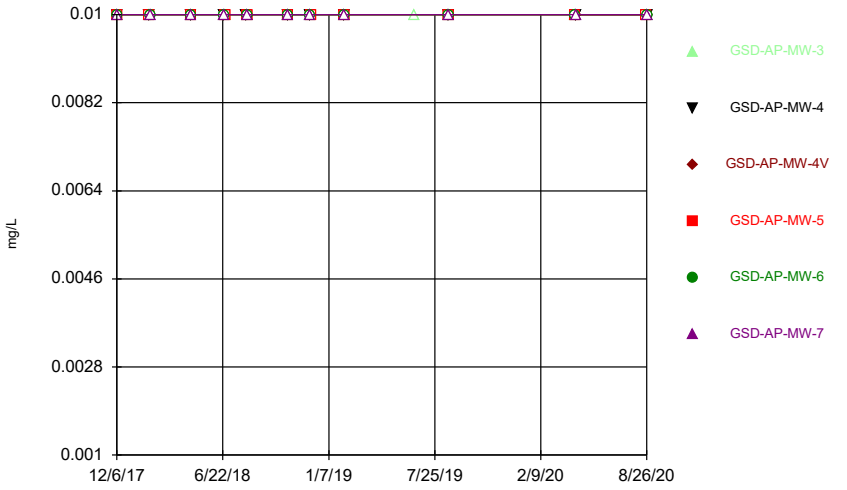
Time Series



Constituent: Selenium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

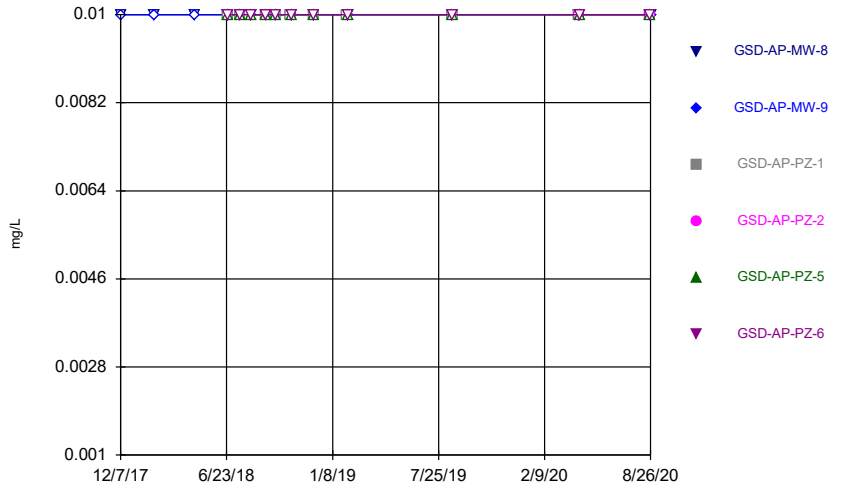
Time Series



Constituent: Selenium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

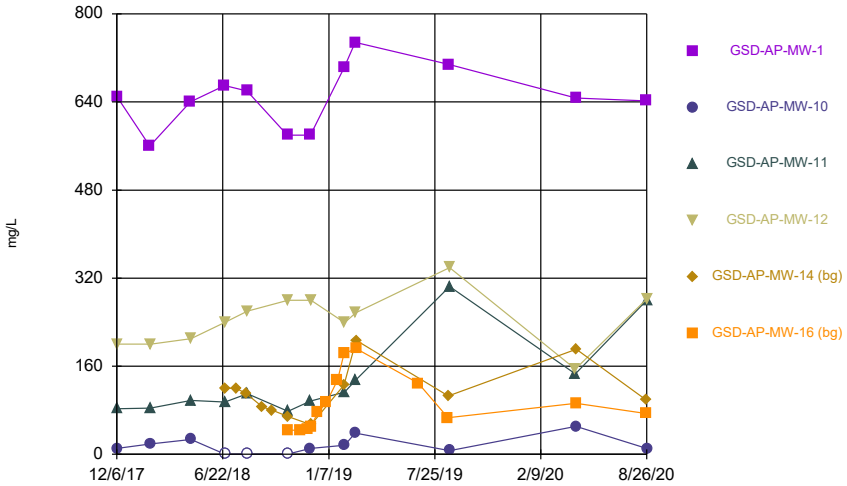
Time Series



Constituent: Selenium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

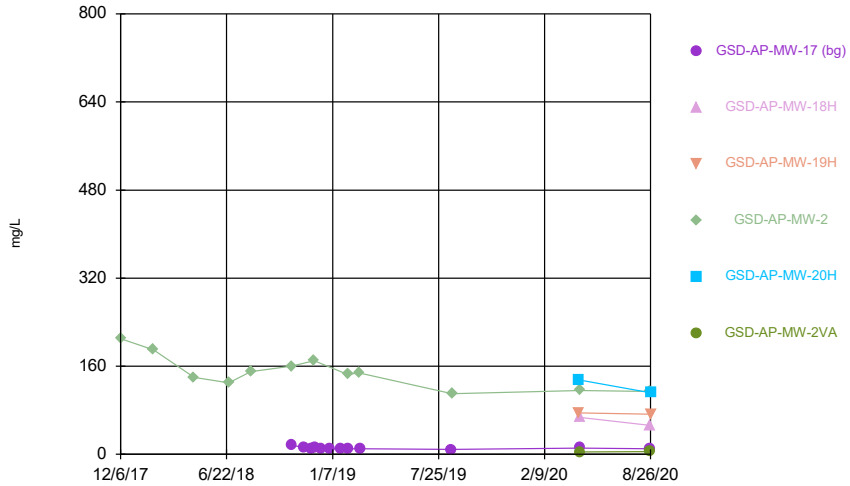
Time Series



Constituent: Sulfate Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

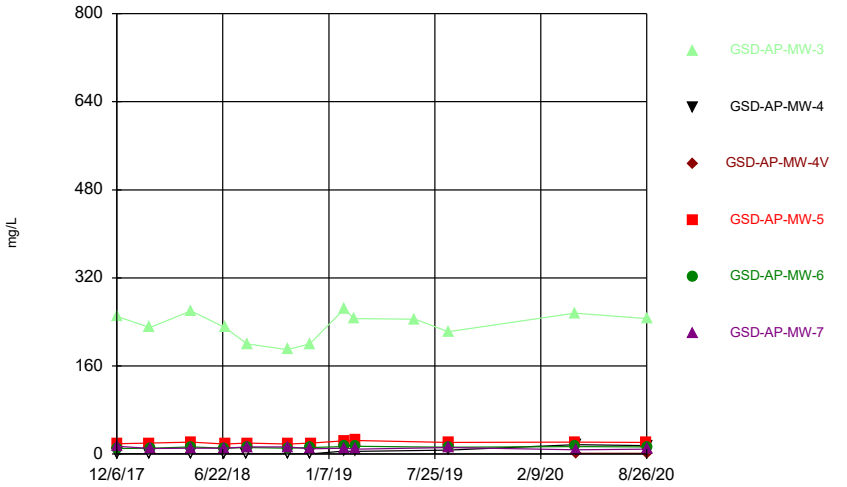
Time Series



Constituent: Sulfate Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

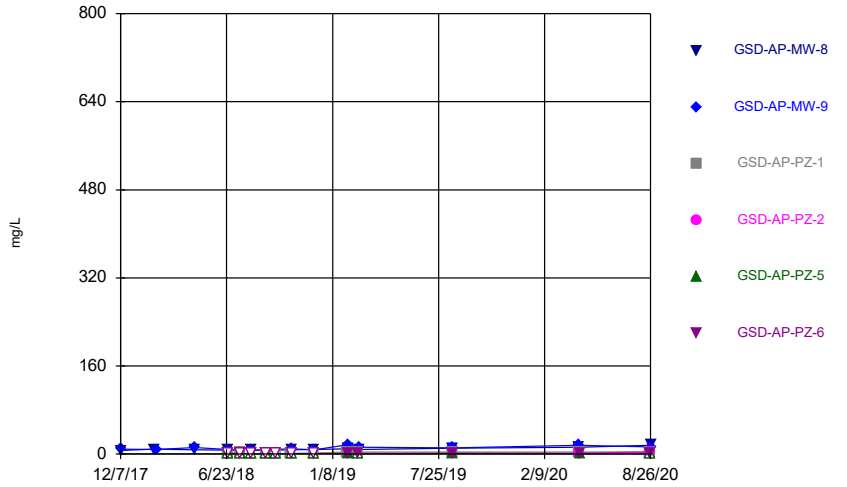
Time Series



Constituent: Sulfate Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

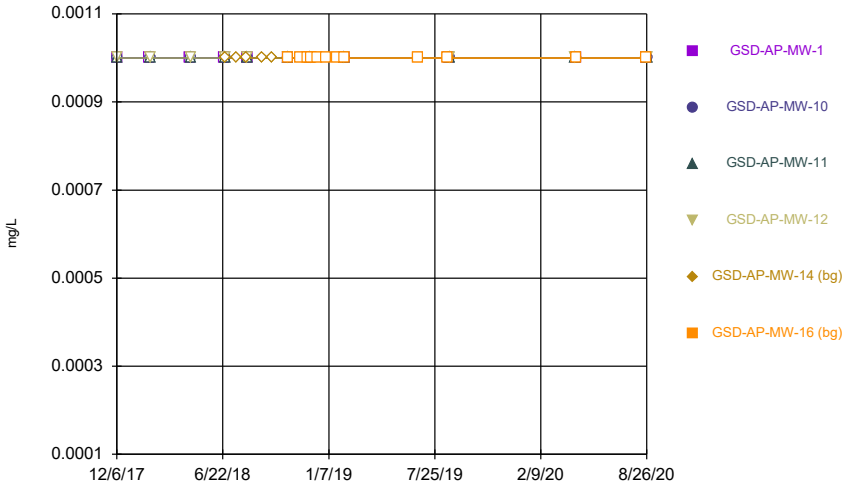
Time Series



Constituent: Sulfate Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

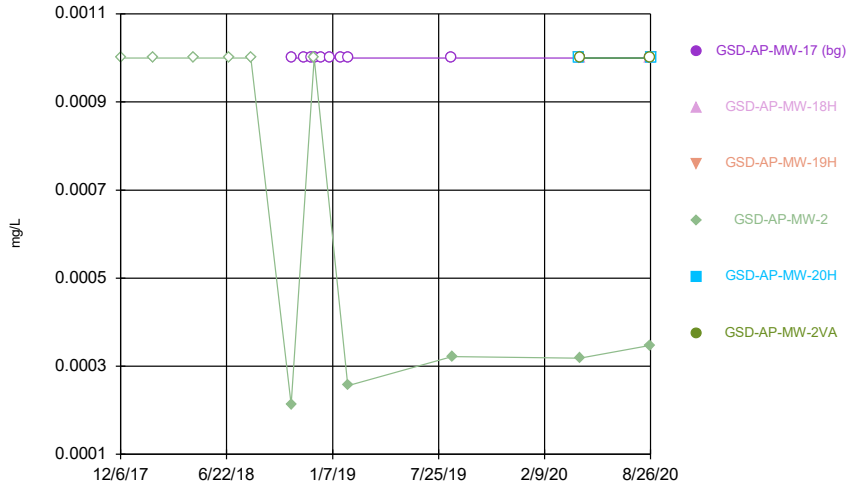
Time Series



Constituent: Thallium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

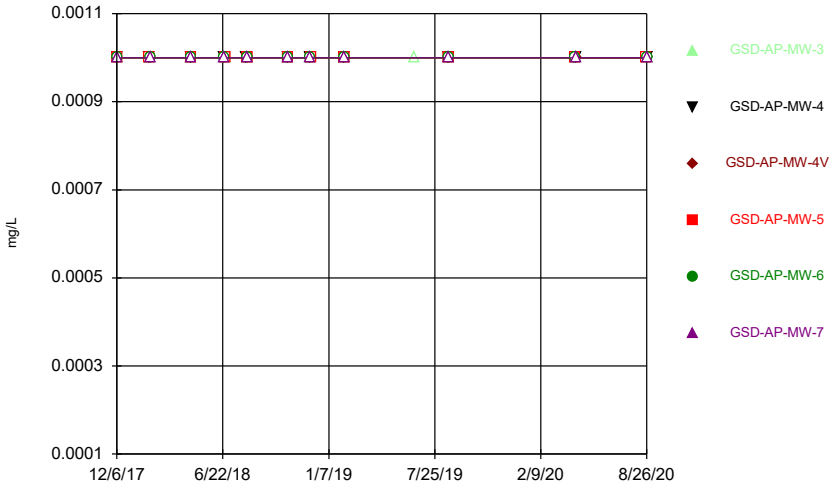
Time Series



Constituent: Thallium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

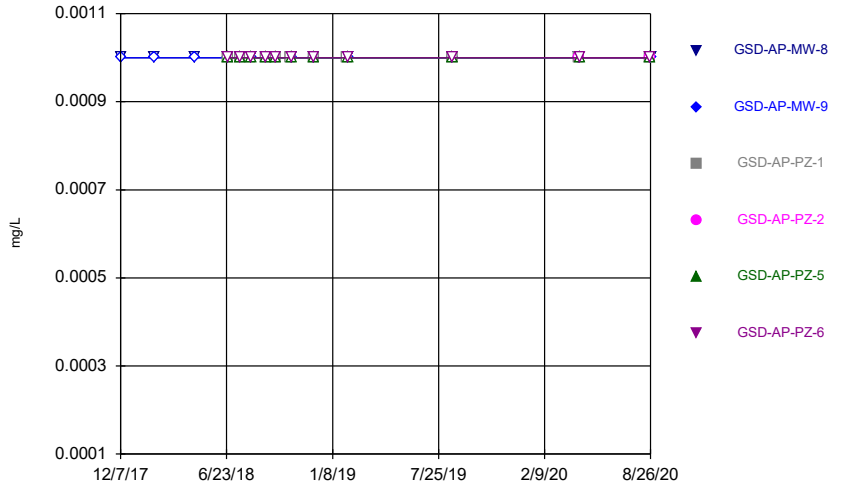
Time Series



Constituent: Thallium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

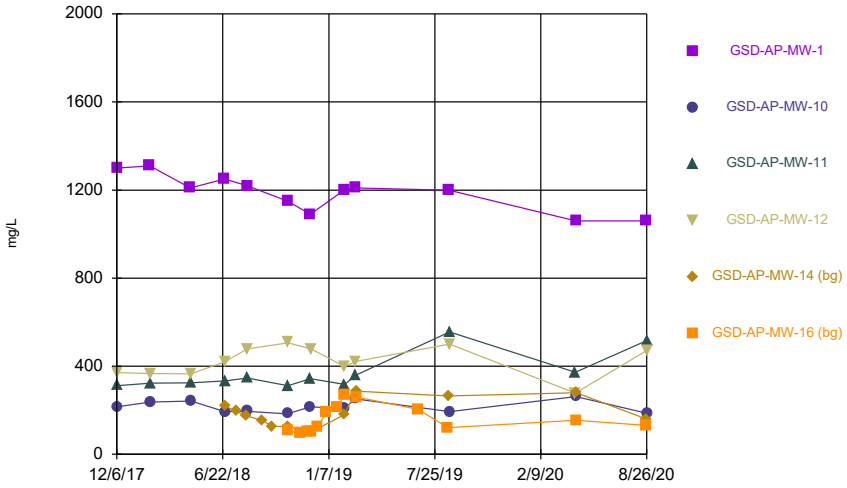
Time Series



Constituent: Thallium Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

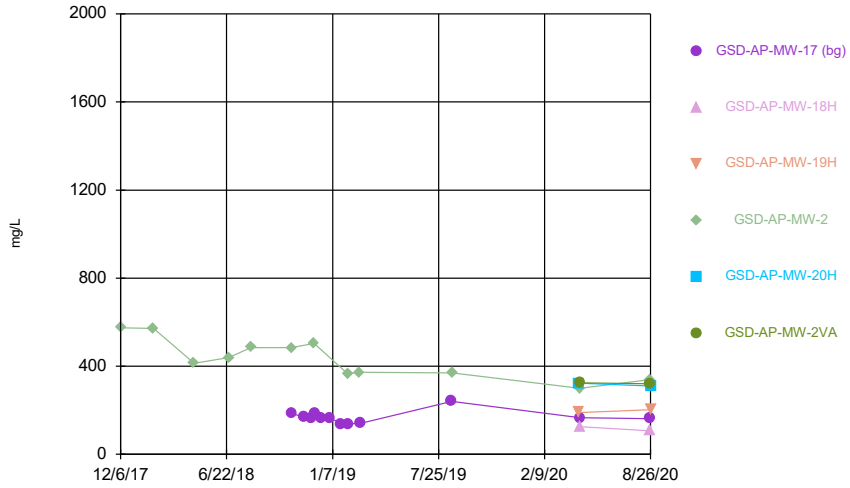
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

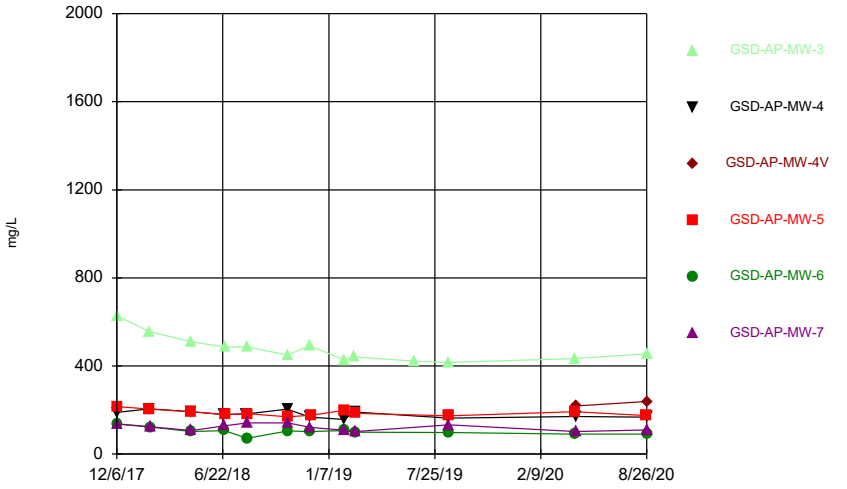
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

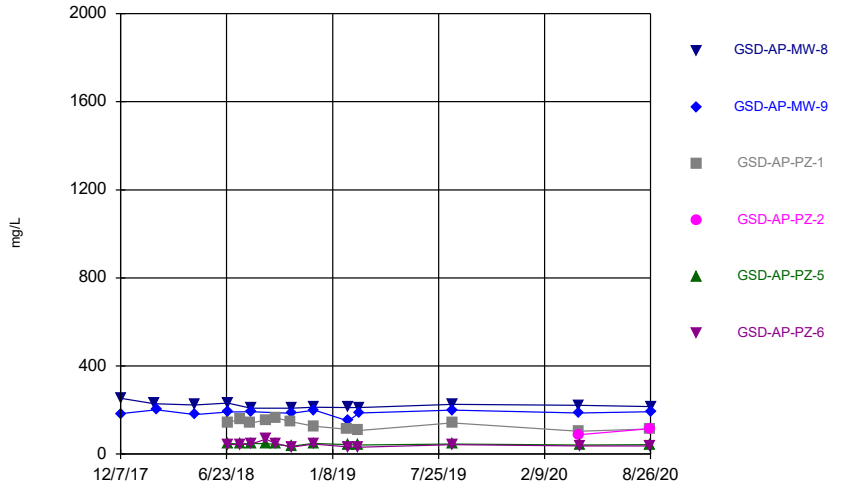
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/4/2020 3:04 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.003	<0.003	<0.003	<0.003		
2/6/2018	<0.003					
2/7/2018		<0.003	<0.003			
2/8/2018				<0.003		
4/23/2018	<0.003					
4/24/2018		<0.003	<0.003	<0.003		
6/26/2018	<0.003					
6/27/2018		<0.003	<0.003	<0.003	<0.003	
7/18/2018					<0.003	
8/6/2018					<0.003	
8/7/2018	<0.003	<0.003				
8/8/2018			<0.003	<0.003		
9/5/2018					<0.003	
9/24/2018					<0.003	
10/22/2018	<0.003	<0.003				
10/23/2018			<0.003	<0.003		
10/24/2018					<0.003	<0.003
11/14/2018						<0.003
11/28/2018						<0.003
12/4/2018	<0.003	<0.003	<0.003			
12/5/2018				<0.003	<0.003	<0.003
12/18/2018						<0.003
1/3/2019						<0.003
1/24/2019						0.000922 (J)
2/5/2019	<0.003				<0.003	<0.003
2/6/2019		<0.003	<0.003	<0.003		
6/24/2019						<0.003
8/19/2019						<0.003
8/20/2019					<0.003	
8/21/2019	<0.003					
8/22/2019		<0.003	<0.003	<0.003		
4/14/2020			<0.003	<0.003		
4/15/2020	<0.003	<0.003				<0.003
4/16/2020					<0.003	
8/25/2020	<0.003				<0.003	<0.003
8/26/2020		<0.003	<0.003	<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				<0.003		
2/6/2018				<0.003		
4/23/2018				<0.003		
6/27/2018				<0.003		
8/7/2018				<0.003		
10/22/2018				<0.003		
10/24/2018	<0.003					
11/14/2018	<0.003					
11/28/2018	<0.003					
12/4/2018				<0.003		
12/5/2018	<0.003					
12/18/2018	<0.003					
1/3/2019	<0.003					
1/24/2019	<0.003					
2/5/2019	<0.003			<0.003		
8/19/2019	<0.003					
8/20/2019				<0.003		
4/14/2020			<0.003		<0.003	
4/15/2020		<0.003		<0.003		<0.003
4/16/2020	<0.003					
8/24/2020	<0.003					
8/25/2020		<0.003		<0.003		<0.003
8/26/2020			<0.003		<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.003					
12/7/2017		<0.003		<0.003	<0.003	<0.003
2/6/2018	<0.003	<0.003		<0.003		
2/8/2018					<0.003	<0.003
4/24/2018	<0.003	<0.003				
4/25/2018				<0.003	<0.003	<0.003
6/26/2018		<0.003			<0.003	<0.003
6/27/2018	<0.003			<0.003		
8/6/2018		<0.003				
8/7/2018	<0.003			<0.003	<0.003	
8/8/2018						<0.003
10/22/2018	<0.003	<0.003				
10/23/2018				<0.003	<0.003	<0.003
12/3/2018	<0.003	<0.003			<0.003	
12/4/2018						<0.003
12/5/2018				<0.003		
2/5/2019	<0.003	<0.003		<0.003	<0.003	
2/6/2019						<0.003
6/18/2019	<0.003					
8/20/2019	<0.003	<0.003		<0.003	<0.003	
8/21/2019						<0.003
4/13/2020	<0.003			<0.003	<0.003	
4/15/2020		<0.003	<0.003			<0.003
8/24/2020				<0.003		
8/26/2020	<0.003	<0.003	<0.003		<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.003	<0.003				
2/8/2018	<0.003	<0.003				
4/25/2018	<0.003	<0.003				
6/26/2018	<0.003	<0.003				
6/27/2018			<0.003		<0.003	<0.003
7/18/2018			<0.003		<0.003	<0.003
8/7/2018			<0.003			
8/8/2018	<0.003	<0.003			<0.003	<0.003
9/5/2018			<0.003		<0.003	<0.003
9/24/2018			<0.003		<0.003	<0.003
10/22/2018			<0.003			
10/23/2018	<0.003	<0.003			<0.003	<0.003
12/3/2018			<0.003		<0.003	<0.003
12/4/2018	<0.003					
12/5/2018		<0.003				
2/5/2019			<0.003			
2/6/2019	<0.003	<0.003				
2/7/2019					0.00114 (J)	0.00181 (J)
8/20/2019			<0.003			
8/21/2019	<0.003	<0.003			<0.003	<0.003
4/13/2020			<0.003	<0.003		
4/14/2020	<0.003	<0.003				
4/15/2020					<0.003	<0.003
8/24/2020			<0.003	<0.003	<0.003	<0.003
8/26/2020	<0.003	<0.003				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	0.00179 (J)	0.00247 (J)	0.00279 (J)	<0.005		
2/6/2018	0.00191 (J)					
2/7/2018		0.00192 (J)	0.00252 (J)			
2/8/2018				<0.005		
4/23/2018	0.0023 (J)					
4/24/2018		0.00218 (J)	0.00283 (J)	<0.005		
6/26/2018	0.00306 (J)					
6/27/2018		0.00419 (J)	0.00289 (J)	<0.005	0.00165 (J)	
7/18/2018					0.00117 (J)	
8/6/2018					<0.005	
8/7/2018	0.00336 (J)	0.00365 (J)				
8/8/2018			0.00265 (J)	<0.005		
9/5/2018					<0.005	
9/24/2018					0.00148 (J)	
10/22/2018	0.00451 (J)	0.00404 (J)				
10/23/2018			0.00287 (J)	<0.005		
10/24/2018					<0.005	<0.005
11/14/2018						<0.005
11/28/2018						0.00124 (J)
12/4/2018	0.00471 (J)	0.00332 (J)	0.00271 (J)			
12/5/2018				<0.005	<0.005	0.00113 (J)
12/18/2018						0.00113 (J)
1/3/2019						0.00175 (J)
1/24/2019						0.00257 (J)
2/5/2019	0.00365 (J)				0.00119 (J)	0.00355 (J)
2/6/2019		0.00333 (J)	0.00272 (J)	<0.005		
6/24/2019						0.00474 (J)
8/19/2019						0.00228 (J)
8/20/2019					0.00216 (J)	
8/21/2019	0.00444 (J)					
8/22/2019		0.00394 (J)	0.00229 (J)	<0.005		
4/14/2020			0.00286 (J)	<0.005		
4/15/2020	0.00309 (J)	0.00236 (J)				0.0034 (J)
4/16/2020					0.00483 (J)	
8/25/2020	0.00435 (J)				0.002 (J)	0.00237 (J)
8/26/2020		0.00422 (J)	0.00246 (J)	<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				0.809		
2/6/2018				0.774		
4/23/2018				0.643		
6/27/2018				1.01		
8/7/2018				0.988		
10/22/2018				1.01		
10/24/2018	<0.005					
11/14/2018	<0.005					
11/28/2018	<0.005					
12/4/2018				0.553		
12/5/2018	<0.005					
12/18/2018	<0.005					
1/3/2019	<0.005					
1/24/2019	<0.005					
2/5/2019	<0.005			0.74		
8/19/2019	<0.005					
8/20/2019				0.825		
4/14/2020			<0.005		0.00287 (J)	
4/15/2020		<0.005		0.709		<0.005
4/16/2020	<0.005					
8/24/2020	<0.005					
8/25/2020		<0.005		0.727		0.00135 (J)
8/26/2020			<0.005		0.00186 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	0.00101 (J)					
12/7/2017		0.0132		<0.005	<0.005	<0.005
2/6/2018	<0.005	0.0105		<0.005		
2/8/2018					<0.005	<0.005
4/24/2018	<0.005	0.0124				
4/25/2018				<0.005	<0.005	<0.005
6/26/2018		0.0132			<0.005	<0.005
6/27/2018	<0.005			<0.005		
8/6/2018		0.013				
8/7/2018	<0.005			<0.005	<0.005	
8/8/2018						<0.005
10/22/2018	<0.005	0.0144				
10/23/2018				<0.005	<0.005	<0.005
12/3/2018	<0.005	0.0119			<0.005	
12/4/2018						<0.005
12/5/2018				<0.005		
2/5/2019	<0.005	0.0107		<0.005	<0.005	
2/6/2019						<0.005
6/18/2019	<0.005					
8/20/2019	<0.005	0.0141		<0.005	<0.005	
8/21/2019						<0.005
4/13/2020	<0.005			<0.005	<0.005	
4/15/2020		0.0121	<0.005			<0.005
8/24/2020				<0.005		
8/26/2020	<0.005	0.0133	<0.005		<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	0.00313 (J)	0.00112 (J)				
2/8/2018	0.00247 (J)	<0.005				
4/25/2018	0.00291 (J)	<0.005				
6/26/2018	0.00265 (J)	<0.005				
6/27/2018			<0.005		<0.005	<0.005
7/18/2018			<0.005		<0.005	<0.005
8/7/2018			<0.005			
8/8/2018	0.00203 (J)	<0.005			<0.005	<0.005
9/5/2018			<0.005		<0.005	<0.005
9/24/2018			<0.005		<0.005	<0.005
10/22/2018			<0.005			
10/23/2018	0.00246 (J)	<0.005			<0.005	<0.005
12/3/2018			<0.005		<0.005	<0.005
12/4/2018	0.00328 (J)					
12/5/2018		0.00111 (J)				
2/5/2019			<0.005			
2/6/2019	0.00325 (J)	<0.005				
2/7/2019					<0.005	<0.005
8/20/2019			<0.005			
8/21/2019	0.00302 (J)	<0.005			<0.005	<0.005
4/13/2020			<0.005	<0.005		
4/14/2020	0.00295 (J)	0.00118 (J)				
4/15/2020					<0.005	<0.005
8/24/2020			<0.005	<0.005	<0.005	<0.005
8/26/2020	0.00304 (J)	<0.005				

Time Series

Constituent: Barium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	0.0807	0.308	0.349	0.0501		
2/6/2018	0.0546					
2/7/2018		0.289	0.297			
2/8/2018				0.0375		
4/23/2018	0.0488					
4/24/2018		0.359	0.338	0.0405		
6/26/2018	0.0479					
6/27/2018		0.307	0.338	0.0466	0.0338	
7/18/2018					0.03	
8/6/2018					0.0274	
8/7/2018	0.0402	0.25				
8/8/2018			0.307	0.0448		
9/5/2018					0.0275	
9/24/2018					0.0264	
10/22/2018	0.0427	0.29				
10/23/2018			0.311	0.054		
10/24/2018					0.0276	0.0499
11/14/2018						0.0458
11/28/2018						0.0476
12/4/2018	0.0434	0.305	0.331			
12/5/2018				0.0493	0.0256	0.0475
12/18/2018						0.0461
1/3/2019						0.0426
1/24/2019						0.0485
2/5/2019	0.0439				0.0314	0.0354
2/6/2019		0.265	0.286	0.036		
6/24/2019						0.0294
8/19/2019						0.0314
8/20/2019					0.0274	
8/21/2019	0.037					
8/22/2019		0.302	0.214	0.0455		
4/14/2020			0.168	0.0279		
4/15/2020	0.0329	0.35				0.028
4/16/2020					0.0327	
8/25/2020	0.0358				0.0291	0.0261
8/26/2020		0.322	0.165	0.0503		

Time Series

Constituent: Barium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				0.0842		
2/6/2018				0.0716		
4/23/2018				0.0518		
6/27/2018				0.0578		
8/7/2018				0.0566		
10/22/2018				0.0536		
10/24/2018	0.218					
11/14/2018	0.203					
11/28/2018	0.191					
12/4/2018				0.0589		
12/5/2018	0.209					
12/18/2018	0.199					
1/3/2019	0.176					
1/24/2019	0.206					
2/5/2019	0.168			0.0418		
8/19/2019	0.259					
8/20/2019				0.0685		
4/14/2020			0.153		0.189	
4/15/2020		0.0389		0.0607		0.2
4/16/2020	0.257					
8/24/2020	0.312					
8/25/2020		0.0388		0.0812		0.135
8/26/2020			0.201		0.197	

Time Series

Constituent: Barium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	0.126					
12/7/2017		0.239		0.279	0.0809	0.083
2/6/2018	0.0721	0.206		0.195		
2/8/2018					0.0566	0.0756
4/24/2018	0.0492	0.217				
4/25/2018				0.26	0.0553	0.0764
6/26/2018		0.208			0.0604	0.0799
6/27/2018	0.0453			0.249		
8/6/2018		0.189				
8/7/2018	0.0431			0.216	0.0542	
8/8/2018						0.0791
10/22/2018	0.0541	0.209				
10/23/2018				0.26	0.0608	0.0898
12/3/2018	0.0545	0.214			0.0633	
12/4/2018						0.0789
12/5/2018				0.245		
2/5/2019	0.0363	0.173		0.215	0.0551	
2/6/2019						0.0685
6/18/2019	0.0369					
8/20/2019	0.0405	0.188		0.238	0.0731	
8/21/2019						0.0946
4/13/2020	0.0349			0.241	0.0635	
4/15/2020		0.159	0.457			0.0653
8/24/2020				0.238		
8/26/2020	0.0363	0.181	0.534		0.0771	0.0845

Time Series

Constituent: Barium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	0.244	0.187				
2/8/2018	0.135	0.148				
4/25/2018	0.224	0.158				
6/26/2018	0.181	0.16				
6/27/2018			0.115		0.154	0.0298
7/18/2018			0.116		0.15	0.0312
8/7/2018			0.0906			
8/8/2018	0.134	0.161			0.119	0.0265
9/5/2018			0.116		0.123	0.0291
9/24/2018			0.125		0.112	0.029
10/22/2018			0.102			
10/23/2018	0.17	0.183			0.125	0.0298
12/3/2018			0.0784		0.126	0.0307
12/4/2018	0.189					
12/5/2018		0.186				
2/5/2019			0.0578			
2/6/2019	0.226	0.128				
2/7/2019					0.0602	0.028
8/20/2019			0.097			
8/21/2019	0.194	0.183			0.085	0.0312
4/13/2020			0.0529	0.0832		
4/14/2020	0.262	0.186				
4/15/2020					0.0535	0.0296
8/24/2020			0.0733	0.132	0.0565	0.031
8/26/2020	0.235	0.202				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.003	<0.003	<0.003	<0.003		
2/6/2018	<0.003					
2/7/2018		<0.003	<0.003			
2/8/2018				<0.003		
4/23/2018	<0.003					
4/24/2018		<0.003	<0.003	<0.003		
6/26/2018	<0.003					
6/27/2018		<0.003	<0.003	<0.003	0.00134 (J)	
7/18/2018					0.00133 (J)	
8/6/2018					0.00129 (J)	
8/7/2018	<0.003	<0.003				
8/8/2018			<0.003	<0.003		
9/5/2018					0.00106 (J)	
9/24/2018					0.000991 (J)	
10/22/2018	<0.003	<0.003				
10/23/2018			<0.003	<0.003		
10/24/2018					0.00082 (J)	<0.003
11/14/2018						<0.003
11/28/2018						0.00133 (J)
12/4/2018	<0.003	<0.003	<0.003			
12/5/2018				<0.003	0.00141 (J)	<0.003
12/18/2018						0.000761 (J)
1/3/2019						0.000677 (J)
1/24/2019						0.000703 (J)
2/5/2019	<0.003				0.0011 (J)	0.000711 (J)
2/6/2019		<0.003	<0.003	<0.003		
6/24/2019						0.000605 (J)
8/19/2019						<0.003
8/20/2019					0.00129 (J)	
8/21/2019	<0.003					
8/22/2019		<0.003	<0.003	<0.003		
4/14/2020			<0.003	<0.003		
4/15/2020	<0.003	<0.003				<0.003
4/16/2020					0.00157 (J)	
8/25/2020	<0.003				0.00117 (J)	<0.003
8/26/2020		<0.003	<0.003	<0.003		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				<0.003		
2/6/2018				<0.003		
4/23/2018				<0.003		
6/27/2018				<0.003		
8/7/2018				<0.003		
10/22/2018				<0.003		
10/24/2018	<0.003					
11/14/2018	<0.003					
11/28/2018	<0.003					
12/4/2018				<0.003		
12/5/2018	<0.003					
12/18/2018	<0.003					
1/3/2019	<0.003					
1/24/2019	<0.003					
2/5/2019	<0.003			<0.003		
8/19/2019	<0.003					
8/20/2019				<0.003		
4/14/2020			<0.003		<0.003	
4/15/2020		<0.003		<0.003		<0.003
4/16/2020	<0.003					
8/24/2020	<0.003					
8/25/2020		<0.003		<0.003		<0.003
8/26/2020			<0.003		<0.003	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.003					
12/7/2017		<0.003		<0.003	<0.003	<0.003
2/6/2018	<0.003	<0.003		<0.003		
2/8/2018					<0.003	<0.003
4/24/2018	<0.003	<0.003				
4/25/2018				<0.003	<0.003	<0.003
6/26/2018		<0.003			<0.003	<0.003
6/27/2018	<0.003			<0.003		
8/6/2018		<0.003				
8/7/2018	<0.003			<0.003	<0.003	
8/8/2018						<0.003
10/22/2018	<0.003	<0.003				
10/23/2018				<0.003	<0.003	<0.003
12/3/2018	<0.003	<0.003			<0.003	
12/4/2018						<0.003
12/5/2018				<0.003		
2/5/2019	<0.003	<0.003		<0.003	<0.003	
2/6/2019						<0.003
6/18/2019	<0.003					
8/20/2019	<0.003	<0.003		<0.003	<0.003	
8/21/2019						<0.003
4/13/2020	<0.003			<0.003	<0.003	
4/15/2020		<0.003	<0.003			<0.003
8/24/2020				<0.003		
8/26/2020	<0.003	<0.003	<0.003		<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.003	<0.003				
2/8/2018	<0.003	<0.003				
4/25/2018	<0.003	<0.003				
6/26/2018	<0.003	<0.003				
6/27/2018			<0.003		<0.003	<0.003
7/18/2018			<0.003		<0.003	<0.003
8/7/2018			<0.003			
8/8/2018	<0.003	<0.003			<0.003	<0.003
9/5/2018			<0.003		<0.003	<0.003
9/24/2018			<0.003		<0.003	<0.003
10/22/2018			<0.003			
10/23/2018	<0.003	<0.003			<0.003	<0.003
12/3/2018			<0.003		<0.003	<0.003
12/4/2018	<0.003					
12/5/2018		<0.003				
2/5/2019			<0.003			
2/6/2019	<0.003	<0.003				
2/7/2019					<0.003	<0.003
8/20/2019			<0.003			
8/21/2019	<0.003	<0.003			<0.003	<0.003
4/13/2020			<0.003	<0.003		
4/14/2020	<0.003	<0.003				
4/15/2020					<0.003	<0.003
8/24/2020			<0.003	<0.003	<0.003	<0.003
8/26/2020	<0.003	<0.003				

Time Series

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	1.28	0.135	0.12	0.0605 (J)		
2/6/2018	1.29					
2/7/2018		0.12	0.109			
2/8/2018				0.0527 (J)		
4/23/2018	1.21					
4/24/2018		0.144	0.124	0.0476 (J)		
6/26/2018	1.25					
6/27/2018		0.0903 (J)	0.111	0.0539 (J)	<0.1	
7/18/2018					<0.1	
8/6/2018					<0.1	
8/7/2018	1.21	0.106				
8/8/2018			0.135	0.0637 (J)		
9/5/2018					<0.1	
9/24/2018					<0.1	
10/22/2018	1.22	0.107				
10/23/2018			0.114	0.0696 (J)		
10/24/2018					<0.1	0.0261 (J)
11/14/2018						0.0209 (J)
11/28/2018						0.0239 (J)
12/4/2018	1.08	0.103	0.124			
12/5/2018				0.0652 (J)	<0.1	<0.1
12/18/2018						<0.1
1/3/2019						0.0209 (J)
1/24/2019						0.0271 (J)
2/5/2019	1.2				<0.1	0.0245 (J)
2/6/2019		0.105	0.112	0.0511 (J)		
2/26/2019	1.15	0.146				
2/27/2019			0.14	0.0494 (J)		
2/28/2019					<0.1	<0.1
6/24/2019						<0.1
8/19/2019						<0.1
8/20/2019					<0.1	
8/21/2019	1.24					
8/22/2019		0.0951 (J)	0.272	0.0625 (J)		
4/14/2020			0.154	0.0377 (J)		
4/15/2020	1.13	0.164				<0.1
4/16/2020					<0.1	
8/25/2020	1.11				<0.1	<0.1
8/26/2020		0.108	0.257	0.0698 (J)		

Time Series

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				0.758		
2/6/2018				0.733		
4/23/2018				0.608		
6/27/2018				0.619		
8/7/2018				0.697		
10/22/2018				0.754		
10/24/2018	0.0357 (J)					
11/14/2018	0.0348 (J)					
11/28/2018	0.0313 (J)					
12/4/2018				0.737		
12/5/2018	0.0363 (J)					
12/18/2018	0.033 (J)					
1/3/2019	0.036 (J)					
1/24/2019	0.0307 (J)					
2/5/2019	0.0306 (J)			0.575		
2/26/2019				0.566		
2/28/2019	0.0206 (J)					
8/19/2019	0.0341 (J)					
8/20/2019				0.566		
4/14/2020			0.448		0.308	
4/15/2020		0.124		0.461		0.587
4/16/2020	0.0331 (J)					
8/24/2020	0.0303 (J)					
8/25/2020		0.105		0.528		0.552
8/26/2020			0.39		0.308	

Time Series

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	0.959					
12/7/2017		0.515		0.566	0.063 (J)	0.102
2/6/2018	1.04	0.541		0.614		
2/8/2018					0.0508 (J)	0.0787 (J)
4/24/2018	0.979	0.475				
4/25/2018				0.498	0.0548 (J)	0.0734 (J)
6/26/2018		0.444			0.0571 (J)	0.094 (J)
6/27/2018	0.982			0.446		
8/6/2018		0.474				
8/7/2018	1			0.442	0.0571 (J)	
8/8/2018						0.103
10/22/2018	1.08	0.496				
10/23/2018				0.436	0.0636 (J)	0.106
12/3/2018	1.05	0.51			0.0568 (J)	
12/4/2018						0.085 (J)
12/5/2018				0.456		
2/5/2019	1.01	0.43		0.453	0.0509 (J)	
2/6/2019						0.0733 (J)
2/25/2019	1.08					
2/26/2019		0.411			0.0527 (J)	
2/27/2019				0.457		0.0548 (J)
6/18/2019	1.09					
8/20/2019	1.06	0.399		0.378	0.0608 (J)	
8/21/2019						0.091 (J)
4/13/2020	1.19			0.359	0.0561 (J)	
4/15/2020		0.344	0.0634 (J)			0.0534 (J)
8/24/2020				0.329		
8/26/2020	1.16	0.398	0.0611 (J)		0.0633 (J)	0.0665 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	0.0828 (J)	0.0614 (J)				
2/8/2018	0.0691 (J)	0.0531 (J)				
4/25/2018	0.0571 (J)	0.0551 (J)				
6/26/2018	0.0634 (J)	0.0568 (J)				
6/27/2018			<0.1		<0.1	<0.1
7/18/2018			<0.1		<0.1	<0.1
8/7/2018			<0.1			
8/8/2018	0.0659 (J)	0.0524 (J)			<0.1	<0.1
9/5/2018			<0.1		<0.1	<0.1
9/24/2018			<0.1		<0.1	<0.1
10/22/2018			<0.1			
10/23/2018	0.0666 (J)	0.0576 (J)			<0.1	<0.1
12/3/2018			<0.1		<0.1	<0.1
12/4/2018	0.0617 (J)					
12/5/2018		0.0561 (J)				
2/5/2019			<0.1			
2/6/2019	0.0586 (J)	0.0627 (J)				
2/7/2019					<0.1	<0.1
2/25/2019			<0.1		<0.1	<0.1
2/27/2019	0.0428 (J)	0.0474 (J)				
8/20/2019			<0.1			
8/21/2019	0.0569 (J)	0.0524 (J)			<0.1	<0.1
4/13/2020			<0.1	<0.1		
4/14/2020	0.0474 (J)	0.0562 (J)				
4/15/2020					<0.1	<0.1
8/24/2020			<0.1	<0.1	<0.1	<0.1
8/26/2020	0.0501 (J)	0.0565 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.001	<0.001	<0.001	0.000596 (J)		
2/6/2018	<0.001					
2/7/2018		<0.001	<0.001			
2/8/2018				0.00064 (J)		
4/23/2018	<0.001					
4/24/2018		<0.001	<0.001	0.000702 (J)		
6/26/2018	<0.001					
6/27/2018		<0.001	<0.001	0.000732 (J)	0.00064 (J)	
7/18/2018					0.000679 (J)	
8/6/2018					0.000536 (J)	
8/7/2018	<0.001	<0.001				
8/8/2018			<0.001	0.000587 (J)		
9/5/2018					0.000479 (J)	
9/24/2018					0.00039 (J)	
10/22/2018	<0.001	<0.001				
10/23/2018			<0.001	0.000552 (J)		
10/24/2018					0.000436 (J)	0.000307 (J)
11/14/2018						0.000417 (J)
11/28/2018						0.000387 (J)
12/4/2018	<0.001	<0.001	<0.001			
12/5/2018				0.000661 (J)	0.000307 (J)	0.000317 (J)
12/18/2018						0.000438 (J)
1/3/2019						0.000703 (J)
1/24/2019						0.000736 (J)
2/5/2019	<0.001				0.000515 (J)	0.00101
2/6/2019		<0.001	<0.001	0.000583 (J)		
6/24/2019						0.000686 (J)
8/19/2019						0.000499 (J)
8/20/2019					0.000622 (J)	
8/21/2019	<0.001					
8/22/2019		<0.001	<0.001	0.000755 (J)		
4/14/2020			<0.001	0.000425 (J)		
4/15/2020	<0.001	<0.001				0.000697 (J)
4/16/2020					0.00101	
8/25/2020	<0.001				0.000584 (J)	0.000507 (J)
8/26/2020		<0.001	<0.001	0.000618 (J)		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				<0.001		
2/6/2018				<0.001		
4/23/2018				<0.001		
6/27/2018				<0.001		
8/7/2018				<0.001		
10/22/2018				<0.001		
10/24/2018	<0.001					
11/14/2018	<0.001					
11/28/2018	<0.001					
12/4/2018				<0.001		
12/5/2018	<0.001					
12/18/2018	<0.001					
1/3/2019	<0.001					
1/24/2019	<0.001					
2/5/2019	<0.001			<0.001		
8/19/2019	<0.001					
8/20/2019				<0.001		
4/14/2020			<0.001		<0.001	
4/15/2020		<0.001		<0.001		<0.001
4/16/2020	<0.001					
8/24/2020	<0.001					
8/25/2020		<0.001		<0.001		<0.001
8/26/2020			<0.001		<0.001	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.001					
12/7/2017		<0.001		<0.001	<0.001	<0.001
2/6/2018	<0.001	<0.001		<0.001		
2/8/2018					<0.001	<0.001
4/24/2018	<0.001	<0.001				
4/25/2018				<0.001	<0.001	<0.001
6/26/2018		<0.001			<0.001	<0.001
6/27/2018	<0.001			<0.001		
8/6/2018		<0.001				
8/7/2018	<0.001			<0.001	<0.001	
8/8/2018						<0.001
10/22/2018	<0.001	<0.001				
10/23/2018				<0.001	<0.001	<0.001
12/3/2018	<0.001	<0.001			<0.001	
12/4/2018						<0.001
12/5/2018				<0.001		
2/5/2019	<0.001	<0.001		<0.001	<0.001	
2/6/2019						<0.001
6/18/2019	<0.001					
8/20/2019	<0.001	<0.001		<0.001	<0.001	
8/21/2019						<0.001
4/13/2020	0.000438 (J)			<0.001	<0.001	
4/15/2020		<0.001	<0.001			<0.001
8/24/2020				<0.001		
8/26/2020	<0.001	<0.001	<0.001		<0.001	<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.001	<0.001				
2/8/2018	<0.001	<0.001				
4/25/2018	<0.001	<0.001				
6/26/2018	<0.001	<0.001				
6/27/2018			<0.001		0.000304 (J)	<0.001
7/18/2018			<0.001		<0.001	<0.001
8/7/2018			<0.001			
8/8/2018	<0.001	<0.001			<0.001	<0.001
9/5/2018			<0.001		<0.001	<0.001
9/24/2018			<0.001		<0.001	<0.001
10/22/2018			<0.001			
10/23/2018	<0.001	<0.001			<0.001	<0.001
12/3/2018			<0.001		<0.001	<0.001
12/4/2018	<0.001					
12/5/2018		<0.001				
2/5/2019			<0.001			
2/6/2019	<0.001	<0.001				
2/7/2019					<0.001	<0.001
8/20/2019			<0.001			
8/21/2019	<0.001	<0.001			<0.001	<0.001
4/13/2020			<0.001	<0.001		
4/14/2020	<0.001	<0.001				
4/15/2020					<0.001	<0.001
8/24/2020			<0.001	<0.001	<0.001	<0.001
8/26/2020	<0.001	<0.001				

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	271	42	70	49		
2/6/2018	275					
2/7/2018		47.6	72.4			
2/8/2018				50		
4/23/2018	269					
4/24/2018		50.1	72.3	50.5		
6/26/2018	268					
6/27/2018		37.1	73.1	56.3	16.6	
7/18/2018					15.3	
8/6/2018					13.8	
8/7/2018	259	37.4				
8/8/2018			76	65.7		
9/5/2018					12.1	
9/24/2018					11.8	
10/22/2018	240	36.3				
10/23/2018			70.2	68.3		
10/24/2018					10.2	18
11/14/2018						14.9
11/28/2018						14.8
12/4/2018	254	42.1	74			
12/5/2018				64.3	9.14	14.8
12/18/2018						16.4
1/3/2019						19.7
1/24/2019						19.6
2/5/2019	292				15.1	20.8
2/6/2019		41.3	73.1	52.2		
2/26/2019	254	53.3				
2/27/2019			82.2	60.2		
2/28/2019					21.4	21.5
6/24/2019						18.4
8/19/2019						12.8
8/20/2019					14.4	
8/21/2019	272					
8/22/2019		38.5	133	89.4		
4/14/2020			82.4	40		
4/15/2020	231	54.1				13.1
4/16/2020					20.1	
8/25/2020	218				13.1	12.2
8/26/2020		37.8	111	68.4		

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				128		
2/6/2018				130		
4/23/2018				95.9		
6/27/2018				99.4		
8/7/2018				107		
10/22/2018				107		
10/24/2018	28.3					
11/14/2018	27.5					
11/28/2018	20.7					
12/4/2018				120		
12/5/2018	25.3					
12/18/2018	20.9					
1/3/2019	18.5					
1/24/2019	17					
2/5/2019	17.1			80.6		
2/26/2019				79.6		
2/28/2019	18.6					
8/19/2019	25.3					
8/20/2019				92.3		
4/14/2020			32.9		51.5	
4/15/2020		19.1		69.2		5
4/16/2020	30.7					
8/24/2020	30.8					
8/25/2020		14.9		80.5		4.97
8/26/2020			39.3		47.6	

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	125					
12/7/2017		30.1		48.2	29.8	23.4
2/6/2018	110	30.6		47.8		
2/8/2018					24.3	20.1
4/24/2018	88.8	27.8				
4/25/2018				41.8	19.8	17.4
6/26/2018		26.2			17.8	21.8
6/27/2018	80.8			36.9		
8/6/2018		27.5				
8/7/2018	88.5			37.6	18.3	
8/8/2018						25.4
10/22/2018	92.7	27.7				
10/23/2018				35.3	18.1	25.6
12/3/2018	105	32.3			16.6	
12/4/2018						19
12/5/2018				36.3		
2/5/2019	68.6	25.5		36.6	14.5	
2/6/2019						16.4
2/25/2019	70.6					
2/26/2019		26.4			16	
2/27/2019				39.6		15.6
6/18/2019	80.5					
8/20/2019	74.1	23.5		33.7	15.1	
8/21/2019						23.5
4/13/2020	69.5			43	12.5	
4/15/2020		22	23.9			14
8/24/2020				35.5		
8/26/2020	75.7	22.8	23.5		12.9	16.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	66.1	38.7				
2/8/2018	58	38.8				
4/25/2018	56.3	40.3				
6/26/2018	57.7	39.9				
6/27/2018			39.4		4.56	3.89
7/18/2018			38.4		3.92	3.8
8/7/2018			36.7			
8/8/2018	51.2	42.3			3.74	3.89
9/5/2018			43.6		3.38	3.78
9/24/2018			44.5		3.25	3.73
10/22/2018			45			
10/23/2018	50.9	39.8			3.37	3.79
12/3/2018			33.7		3.67	3.79
12/4/2018	51.9					
12/5/2018		43.8				
2/5/2019			30.1			
2/6/2019	55	34.9				
2/7/2019					2.89	3.75
2/25/2019			25.6		2.95	3.81
2/27/2019	53.4	42.5				
8/20/2019			38.3			
8/21/2019	71.5	50.9			3.04	3.71
4/13/2020			25.9	16.1		
4/14/2020	56.2	43.6				
4/15/2020					2.93	3.56
8/24/2020			29	24.8	2.94	3.45
8/26/2020	55.5	43.2				

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	6.2	6.9	6.3	6.2		
2/6/2018	5.9					
2/7/2018		6.1	5.4			
2/8/2018				6.1		
4/23/2018	5.9					
4/24/2018		6.9	5.7	5.9		
6/26/2018	5.7					
6/27/2018		5.6	5.4	5.5	3.1	
7/18/2018					3.4	
8/6/2018					2.8	
8/7/2018	5.3	5.1				
8/8/2018			5.2	5.3		
9/5/2018					2.8	
9/24/2018					3.1	
10/22/2018	5.6	5.5				
10/23/2018			5.4	5.8		
10/24/2018					2.8	3.3
11/14/2018						3.6
11/28/2018						3.5
12/4/2018	5.8	5.6	5.3			
12/5/2018				6	2.2	3.3
12/18/2018						3.6
1/3/2019						3.4
1/24/2019						3.91
2/5/2019	5.8				3.12	3.94
2/6/2019		6.24	5.89	5.95		
2/26/2019	5.92	8.28				
2/27/2019			6.2	5.88		
2/28/2019					3.45	4.15
6/24/2019						3.36 (D)
8/19/2019						3.42
8/20/2019					3.27	
8/21/2019	5.26					
8/22/2019		5.66	4.64	6.31		
4/14/2020			5.46	5.74		
4/15/2020	5.5	6.49				3.39
4/16/2020					3.74	
8/25/2020	5.59				3.03	2.94
8/26/2020		5.39	4.74	5.91		

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				4.1		
2/6/2018				3.1		
4/23/2018				3.7		
6/27/2018				2.2		
8/7/2018				2.6		
10/22/2018				2.8		
10/24/2018	4					
11/14/2018	3.6					
11/28/2018	3.5					
12/4/2018				4.1		
12/5/2018	3.2					
12/18/2018	3.4					
1/3/2019	3.2					
1/24/2019	3.15					
2/5/2019	2.98			2.56		
2/26/2019				3.03		
2/28/2019	3.05					
8/19/2019	2.8					
8/20/2019				2.24		
4/14/2020			7.35		6.64	
4/15/2020		6		2.16		6.47
4/16/2020	2.93					
8/24/2020	2.82					
8/25/2020		5.79		2		6.4
8/26/2020			7.03		6.73	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	7.6					
12/7/2017		8.5		8.7	10	7.9
2/6/2018	7.6	8.8		8.5		
2/8/2018					9.5	6.7
4/24/2018	7.5	8.4				
4/25/2018				7.6	9.1	7
6/26/2018		8.7			9.5	7.4
6/27/2018	7.3			7.1		
8/6/2018		11				
8/7/2018	7.6			6.9	9	
8/8/2018						7.7
10/22/2018	6.9	8.6				
10/23/2018				6.7	9.9	8
12/3/2018	6.8	9.1			8.7	
12/4/2018						6.7
12/5/2018				6.7		
2/5/2019	6.95	9.81		7.24	8.73	
2/6/2019						6.84
2/25/2019	6.55					
2/26/2019		13			8.66	
2/27/2019				7.38		6.21
6/18/2019	6.62					
8/20/2019	6.07	9.62		6.53	9.55	
8/21/2019						7.35
4/13/2020	5.95			6.48	8.6	
4/15/2020		9.27	5.16			4.99
8/24/2020				6.64		
8/26/2020	5.89	8.96	5.37		9.21	6.19

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	5.2	7				
2/8/2018	4.1					
2/12/2018		6.6				
4/25/2018	5.3	7.1				
6/26/2018	5	6.4				
6/27/2018			3.6		4.2	4.1
7/18/2018			3.8		4.1	4.3
8/7/2018			3.3			
8/8/2018	4.8	5.5			3.3	3.8
9/5/2018			3.4		3.7	3.9
9/24/2018			3.8		3.9	4.2
10/22/2018			3.3			
10/23/2018	4.4	6.7			4	4.1
12/3/2018			3.2		3.6	3.8
12/4/2018	4.2					
12/5/2018		5.9				
2/5/2019			3.78			
2/6/2019	5.84	7.26				
2/7/2019					3.72	4.15
2/25/2019			3.66		3.95	4.2
2/27/2019	6.52	6.77				
8/20/2019			3.52			
8/21/2019	5.89	6.16			3.85	4
4/13/2020			3.36	5.42		
4/14/2020	5.21	7.27				
4/15/2020					3.83	3.71
8/24/2020			3.35	5.46	3.96	3.59
8/26/2020	5.16	6.57				

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.01	<0.01	<0.01	<0.01		
2/6/2018	<0.01					
2/7/2018		<0.01	<0.01			
2/8/2018				<0.01		
4/23/2018	<0.01					
4/24/2018		<0.01	<0.01	<0.01		
6/26/2018	<0.01					
6/27/2018		<0.01	<0.01	<0.01	<0.01	
7/18/2018					<0.01	
8/6/2018					<0.01	
8/7/2018	<0.01	<0.01				
8/8/2018			<0.01	<0.01		
9/5/2018					<0.01	
9/24/2018					<0.01	
10/22/2018	<0.01	<0.01				
10/23/2018			<0.01	<0.01		
10/24/2018					<0.01	<0.01
11/14/2018						<0.01
11/28/2018						<0.01
12/4/2018	<0.01	<0.01	<0.01			
12/5/2018				<0.01	<0.01	<0.01
12/18/2018						<0.01
1/3/2019						<0.01
1/24/2019						<0.01
2/5/2019	<0.01				<0.01	<0.01
2/6/2019		<0.01	<0.01	<0.01		
6/24/2019						0.00325 (J)
8/19/2019						<0.01
8/20/2019					<0.01	
8/21/2019	<0.01					
8/22/2019		<0.01	<0.01	<0.01		
4/14/2020			<0.01	<0.01		
4/15/2020	<0.01	<0.01				<0.01
4/16/2020					<0.01	
8/25/2020	<0.01				<0.01	<0.01
8/26/2020		<0.01	<0.01	<0.01		

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				<0.01		
2/6/2018				<0.01		
4/23/2018				<0.01		
6/27/2018				<0.01		
8/7/2018				<0.01		
10/22/2018				<0.01		
10/24/2018	<0.01					
11/14/2018	<0.01					
11/28/2018	<0.01					
12/4/2018				<0.01		
12/5/2018	<0.01					
12/18/2018	<0.01					
1/3/2019	<0.01					
1/24/2019	<0.01					
2/5/2019	<0.01			<0.01		
8/19/2019	<0.01					
8/20/2019				<0.01		
4/14/2020			<0.01		<0.01	
4/15/2020		<0.01		<0.01		<0.01
4/16/2020	0.00267 (J)					
8/24/2020	<0.01					
8/25/2020		<0.01		<0.01		<0.01
8/26/2020			<0.01		<0.01	

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.01					
12/7/2017		<0.01		<0.01	<0.01	<0.01
2/6/2018	<0.01	<0.01		<0.01		
2/8/2018					<0.01	<0.01
4/24/2018	<0.01	<0.01				
4/25/2018				<0.01	<0.01	<0.01
6/26/2018		<0.01			<0.01	<0.01
6/27/2018	<0.01			<0.01		
8/6/2018		<0.01				
8/7/2018	<0.01			<0.01	<0.01	
8/8/2018						<0.01
10/22/2018	<0.01	<0.01				
10/23/2018				<0.01	<0.01	<0.01
12/3/2018	<0.01	<0.01			<0.01	
12/4/2018						<0.01
12/5/2018				<0.01		
2/5/2019	<0.01	<0.01		<0.01	<0.01	
2/6/2019						<0.01
6/18/2019	0.00285 (J)					
8/20/2019	<0.01	<0.01		<0.01	<0.01	
8/21/2019						<0.01
4/13/2020	<0.01			<0.01	<0.01	
4/15/2020		<0.01	<0.01			<0.01
8/24/2020				<0.01		
8/26/2020	<0.01	<0.01	<0.01		<0.01	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.01	<0.01				
2/8/2018	<0.01	<0.01				
4/25/2018	<0.01	<0.01				
6/26/2018	<0.01	<0.01				
6/27/2018			<0.01		<0.01	<0.01
7/18/2018			<0.01		<0.01	<0.01
8/7/2018			<0.01			
8/8/2018	<0.01	<0.01			<0.01	<0.01
9/5/2018			<0.01		<0.01	<0.01
9/24/2018			<0.01		<0.01	<0.01
10/22/2018			<0.01			
10/23/2018	<0.01	<0.01			<0.01	<0.01
12/3/2018			<0.01		<0.01	<0.01
12/4/2018	<0.01					
12/5/2018		<0.01				
2/5/2019			<0.01			
2/6/2019	<0.01	<0.01				
2/7/2019					<0.01	<0.01
8/20/2019			<0.01			
8/21/2019	<0.01	<0.01			<0.01	<0.01
4/13/2020			<0.01	<0.01		
4/14/2020	<0.01	<0.01				
4/15/2020					<0.01	<0.01
8/24/2020			<0.01	<0.01	<0.01	<0.01
8/26/2020	<0.01	<0.01				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	0.00818 (J)	<0.005	<0.005	0.00221 (J)		
2/6/2018	0.0123					
2/7/2018		<0.005	<0.005			
2/8/2018				0.00221 (J)		
4/23/2018	0.0204					
4/24/2018		<0.005	<0.005	0.00257 (J)		
6/26/2018	0.0224					
6/27/2018		<0.005	<0.005	0.00266 (J)	0.0382	
7/18/2018					0.0366	
8/6/2018					0.0308	
8/7/2018	0.0193	<0.005				
8/8/2018			<0.005	0.00251 (J)		
9/5/2018					0.0291	
9/24/2018					0.0286	
10/22/2018	0.0243	<0.005				
10/23/2018			<0.005	0.00399 (J)		
10/24/2018					0.0269	0.0129
11/14/2018						0.0114
11/28/2018						0.0168
12/4/2018	0.0166	<0.005	<0.005			
12/5/2018				0.00466 (J)	0.0215	0.0161
12/18/2018						0.0234
1/3/2019						0.038
1/24/2019						0.04
2/5/2019	0.0264				0.0359	0.0538
2/6/2019		<0.005	<0.005	0.00485 (J)		
6/24/2019						0.041
8/19/2019						0.0247
8/20/2019					0.0391	
8/21/2019	0.0242					
8/22/2019		<0.005	0.00756	0.00658		
4/14/2020			<0.005	0.0035 (J)		
4/15/2020	0.0178	<0.005				0.0373
4/16/2020					0.056	
8/25/2020	0.0193				0.0365	0.0294
8/26/2020		<0.005	0.00599	0.00547		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				0.0246		
2/6/2018				0.0243		
4/23/2018				0.0258		
6/27/2018				0.0362		
8/7/2018				0.0332		
10/22/2018				0.0438		
10/24/2018	<0.005					
11/14/2018	<0.005					
11/28/2018	<0.005					
12/4/2018				0.0252		
12/5/2018	<0.005					
12/18/2018	<0.005					
1/3/2019	<0.005					
1/24/2019	<0.005					
2/5/2019	<0.005			0.0362		
8/19/2019	<0.005					
8/20/2019				0.0366		
4/14/2020			0.00886		0.0122	
4/15/2020		<0.005		0.0324		<0.005
4/16/2020	<0.005					
8/24/2020	<0.005					
8/25/2020		<0.005		0.0298		<0.005
8/26/2020			0.0101		0.0104	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	0.0302					
12/7/2017		0.0252		0.00331 (J)	0.00592 (J)	<0.005
2/6/2018	0.0371	0.0243		0.00323 (J)		
2/8/2018					0.00297 (J)	<0.005
4/24/2018	0.0251	0.027				
4/25/2018				0.00258 (J)	<0.005	<0.005
6/26/2018		0.0242			<0.005	<0.005
6/27/2018	0.0234			0.00218 (J)		
8/6/2018		0.0205				
8/7/2018	0.0223			<0.005	<0.005	
8/8/2018						<0.005
10/22/2018	0.03	0.0259				
10/23/2018				0.0023 (J)	<0.005	<0.005
12/3/2018	0.0238	0.0228			<0.005	
12/4/2018						<0.005
12/5/2018				0.00233 (J)		
2/5/2019	0.0232	0.0263		0.0021 (J)	<0.005	
2/6/2019						<0.005
6/18/2019	0.0263					
8/20/2019	0.0257	0.0293		0.00223 (J)	<0.005	
8/21/2019						<0.005
4/13/2020	0.0209			<0.005	<0.005	
4/15/2020		0.0252	<0.005			<0.005
8/24/2020				0.00222 (J)		
8/26/2020	0.0191	0.0231	<0.005		<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	0.00212 (J)	<0.005				
2/8/2018	<0.005	<0.005				
4/25/2018	0.00204 (J)	<0.005				
6/26/2018	<0.005	<0.005				
6/27/2018			<0.005		0.00341 (J)	<0.005
7/18/2018			<0.005		0.00341 (J)	<0.005
8/7/2018			<0.005			
8/8/2018	<0.005	<0.005			0.00221 (J)	<0.005
9/5/2018			<0.005		0.00202 (J)	<0.005
9/24/2018			<0.005		<0.005	<0.005
10/22/2018			<0.005			
10/23/2018	<0.005	<0.005			<0.005	<0.005
12/3/2018			<0.005		0.00227 (J)	<0.005
12/4/2018	<0.005					
12/5/2018		<0.005				
2/5/2019			<0.005			
2/6/2019	0.00232 (J)	<0.005				
2/7/2019					<0.005	<0.005
8/20/2019			<0.005			
8/21/2019	0.00303 (J)	<0.005			0.00225 (J)	<0.005
4/13/2020			<0.005	0.00489 (J)		
4/14/2020	0.00385 (J)	<0.005				
4/15/2020					<0.005	<0.005
8/24/2020			<0.005	0.00237 (J)	<0.005	<0.005
8/26/2020	0.00388 (J)	<0.005				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	0.694	0.585	0.891	0.435 (U)		
2/6/2018	0.641					
2/7/2018		0.474	0.786			
2/8/2018				0.477		
4/23/2018	-0.0527 (U)					
4/24/2018		0.463 (U)	0.935	0.695		
6/26/2018	0.162 (U)					
6/27/2018		0.678	0.537	0.183 (U)	0.616	
7/18/2018					0.859	
8/6/2018					0.654	
8/7/2018	0.87	0.495 (U)				
8/8/2018			1.28	0.817		
9/5/2018					0.855	
9/24/2018					0.787	
10/22/2018	0.691	0.36 (U)				
10/23/2018			1.3	0.796		
10/24/2018					1.14	0.564
11/14/2018						-0.0027 (U)
11/28/2018						0.222 (U)
12/4/2018	0.213 (U)	0.407 (U)	1.05			
12/5/2018				0.498 (U)	0.64	0.288 (U)
2/5/2019	0.637				0.873	0.431 (U)
2/6/2019		0.537	0.779	-0.0241 (U)		
8/19/2019						0.377 (U)
8/20/2019					0.774	
8/21/2019	0.643 (U)					
8/22/2019		-0.021 (U)	1.34 (U)	0.145 (U)		
4/14/2020			0.922 (U)	0.643 (U)		
4/15/2020	0.538 (U)	0.64 (U)				0.449 (U)
4/16/2020					0.865	
8/25/2020	0.502 (U)				0.976	0.851
8/26/2020		0.221 (U)	1.28	1.31		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				0.772		
2/6/2018				0.679		
4/23/2018				0.447 (U)		
6/27/2018				0.117 (U)		
8/7/2018				1.22		
10/22/2018				0.996		
10/24/2018	0.694					
11/14/2018	0.398 (U)					
11/28/2018	0.428 (U)					
12/4/2018				0.739		
12/5/2018	0.302 (U)					
2/5/2019	0.307 (U)			1.09		
8/19/2019	0.683					
8/20/2019				0.553 (U)		
4/14/2020			42.6		0.0962 (U)	
4/15/2020		0.419 (U)		0.182 (U)		0.231 (U)
4/16/2020	0.603					
6/1/2020			0.215 (U)			
8/24/2020	0.404 (U)					
8/25/2020		1.45		0.43 (U)		0.807
8/26/2020			0.265 (U)		0.413 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	0.643					
12/7/2017		1.04		0.885	0.394 (U)	0.895
2/6/2018	0.209 (U)	0.989		0.524		
2/8/2018					0.489	0.322 (U)
4/24/2018	0.596	0.405 (U)				
4/25/2018				0.341 (U)	-0.0902 (U)	0.0097 (U)
6/26/2018		1.03			0.245 (U)	0.587
6/27/2018	0.363 (U)			0.546		
8/6/2018		0.622				
8/7/2018	0.788			1.09	0.439 (U)	
8/8/2018						0.364 (U)
10/22/2018	0.749	1.06				
10/23/2018				1.01	0.243 (U)	0.703
12/3/2018	0.749	0.697			0.304 (U)	
12/4/2018						0.325 (U)
12/5/2018				0.876		
2/5/2019	0.299 (U)	0.467 (U)		0.551 (U)	0.196 (U)	
2/6/2019						0.0774 (U)
8/20/2019	0.709 (U)	0.814		0.206 (U)	-0.086 (U)	
8/21/2019						-0.0134 (U)
4/13/2020	0.942 (U)			1.19	0.0901 (U)	
4/15/2020		-0.0841 (U)	0.329 (U)			0.526 (U)
8/24/2020				0.482 (U)		
8/26/2020	0.177 (U)	0.26 (U)	0.839		0.416 (U)	0.691 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	7.45 (o)	0.226 (U)				
2/8/2018	0.549	0.071 (U)				
4/25/2018	0.65	0.569				
6/26/2018	0.436 (U)	0.43 (U)				
6/27/2018			0.188 (U)		0.259 (U)	0.231 (U)
7/18/2018			0.314 (U)		0.434	0.676
8/7/2018			0.279 (U)			
8/8/2018	0.486 (U)	0.656			0.763	0.496
9/5/2018			0.589		0.631	0.62
9/24/2018			0.772		0.588	-0.12 (U)
10/22/2018			0.621			
10/23/2018	0.319 (U)	0.395 (U)			0.383 (U)	0.352 (U)
12/3/2018			0.188 (U)		0.736	0.238 (U)
12/4/2018	0.875					
12/5/2018		0.52 (U)				
2/5/2019			0.274 (U)			
2/6/2019	0.378 (U)	0.244 (U)				
2/7/2019					0.0202 (U)	0.395 (U)
8/20/2019			0.663			
8/21/2019	0.552 (U)	1.53 (U)			0.442 (U)	-0.00256 (U)
4/13/2020			-0.129 (U)	0.472 (U)		
4/14/2020	0.641 (U)	0.119 (U)				
4/15/2020					0.432 (U)	0.000738 (U)
8/24/2020			0.177 (U)	-0.00312 (U)	0.454 (U)	0.404 (U)
8/26/2020	0.339 (U)	1.18				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	0.1	0.09 (J)	0.06 (J)	<0.1		
2/6/2018	0.08 (J)					
2/7/2018		0.08 (J)	0.05 (J)			
2/8/2018				<0.1		
4/23/2018	0.07 (J)					
4/24/2018		0.08 (J)	0.05 (J)	<0.1		
6/26/2018	0.08 (J)					
6/27/2018		0.09 (J)	0.06 (J)	<0.1	0.18	
7/18/2018					0.23	
8/6/2018					0.23	
8/7/2018	0.07 (J)	0.04 (J)				
8/8/2018			0.06 (J)	<0.1		
9/5/2018					0.22	
9/24/2018					0.2	
10/22/2018	0.07 (J)	0.1				
10/23/2018			0.06 (J)	0.04 (J)		
10/24/2018					0.14	0.11
11/14/2018						0.1
11/28/2018						0.1
12/4/2018	0.04 (J)	0.07 (J)	<0.1			
12/5/2018				<0.1	0.07 (J)	0.11
12/18/2018						0.14
1/3/2019						0.16
1/24/2019						<0.1
2/5/2019	0.0525 (J)				<0.1	<0.1
2/6/2019		0.107	0.0678 (J)	<0.1		
2/26/2019	<0.1	0.0813 (J)				
2/27/2019			0.0985 (J)	<0.1		
2/28/2019					<0.1	<0.1
6/24/2019						<0.1 (D)
8/19/2019						<0.1
8/20/2019					<0.1	
8/21/2019	<0.1					
8/22/2019		0.084 (J)	<0.1	<0.1		
4/14/2020			0.0878 (J)	<0.1		
4/15/2020	<0.1	0.112				<0.1
4/16/2020					<0.1	
8/25/2020	<0.1				<0.1	0.0863 (J)
8/26/2020		0.0997 (J)	<0.1	<0.1		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				0.3		
2/6/2018				0.27		
4/23/2018				0.19		
6/27/2018				0.28		
8/7/2018				0.24		
10/22/2018				0.24		
10/24/2018	0.23					
11/14/2018	0.2					
11/28/2018	0.19					
12/4/2018				0.15		
12/5/2018	0.19					
12/18/2018	0.15					
1/3/2019	0.19					
1/24/2019	0.168					
2/5/2019	0.192			0.207		
2/26/2019				0.264		
2/28/2019	0.182					
8/19/2019	0.187					
8/20/2019				0.252		
4/14/2020			<0.1		0.125	
4/15/2020		<0.1		0.21		2.51
4/16/2020	0.166					
8/24/2020	0.163					
8/25/2020		<0.1		0.273		2.4
8/26/2020			<0.1		0.103	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	0.13					
12/7/2017		0.25		0.06 (J)	0.06 (J)	0.09 (J)
2/6/2018	0.08 (J)	0.24		0.05 (J)		
2/8/2018					0.04 (J)	0.07 (J)
4/24/2018	0.05 (J)	0.2				
4/25/2018				0.05 (J)	0.04 (J)	0.07 (J)
6/26/2018		0.22			0.05 (J)	0.09 (J)
6/27/2018	0.07 (J)			0.06 (J)		
8/6/2018		0.22				
8/7/2018	0.09 (J)			0.06 (J)	0.05 (J)	
8/8/2018						0.1
10/22/2018	0.11	0.24				
10/23/2018				0.07 (J)	0.06 (J)	0.1
12/3/2018	0.08 (J)	0.22			<0.1	
12/4/2018						0.06 (J)
12/5/2018				0.04 (J)		
2/5/2019	0.064 (J)	0.259		0.0651 (J)	0.0581 (J)	
2/6/2019						<0.1
2/25/2019	<0.1					
2/26/2019		0.246			0.0816 (J)	
2/27/2019				0.0578 (J)		0.0824 (J)
6/18/2019	0.0664 (J)					
8/20/2019	0.0592 (J)	0.197		0.0567 (J)	<0.1	
8/21/2019						0.068 (J)
4/13/2020	<0.1			0.0688 (J)	<0.1	
4/15/2020		0.238	0.218			0.0775 (J)
8/24/2020				0.0607 (J)		
8/26/2020	<0.1	0.251	0.217		<0.1	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	0.14	0.12				
2/8/2018	0.11					
2/12/2018		0.11				
4/25/2018	0.09 (J)	0.12				
6/26/2018	0.1	0.13				
6/27/2018			0.13		0.05 (J)	0.04 (J)
7/18/2018			0.11		0.04 (J)	0.04 (J)
8/7/2018			0.11			
8/8/2018	0.1	0.12			0.04 (J)	0.04 (J)
9/5/2018			0.13		0.04 (J)	0.04 (J)
9/24/2018			0.13		0.04 (J)	0.04 (J)
10/22/2018			0.13			
10/23/2018	0.11	0.13			0.04 (J)	0.04 (J)
12/3/2018			0.08 (J)		<0.1	<0.1
12/4/2018	0.08 (J)					
12/5/2018		0.04 (J)				
2/5/2019			0.0934 (J)			
2/6/2019	<0.1	<0.1				
2/7/2019					<0.1	<0.1
2/25/2019			<0.1		<0.1	<0.1
2/27/2019	0.108	0.147				
8/20/2019			0.0889 (J)			
8/21/2019	0.0648 (J)	0.0984 (J)			<0.1	<0.1
4/13/2020			0.103	<0.1		
4/14/2020	0.0845 (J)	0.133				
4/15/2020					<0.1	<0.1
8/24/2020			0.114	<0.1	<0.1	<0.1
8/26/2020	0.0732 (J)	0.13				

Time Series

Constituent: Lead (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.005	<0.005	<0.005	<0.005		
2/6/2018	<0.005					
2/7/2018		<0.005	<0.005			
2/8/2018				<0.005		
4/23/2018	<0.005					
4/24/2018		<0.005	<0.005	<0.005		
6/26/2018	<0.005					
6/27/2018		<0.005	<0.005	<0.005	0.00158 (J)	
7/18/2018					0.00152 (J)	
8/6/2018					0.00143 (J)	
8/7/2018	<0.005	<0.005				
8/8/2018			<0.005	<0.005		
9/5/2018					0.00118 (J)	
9/24/2018					0.00156 (J)	
10/22/2018	<0.005	<0.005				
10/23/2018			<0.005	<0.005		
10/24/2018					0.00121 (J)	<0.005
11/14/2018						<0.005
11/28/2018						<0.005
12/4/2018	<0.005	<0.005	<0.005			
12/5/2018				<0.005	0.00117 (J)	<0.005
12/18/2018						<0.005
1/3/2019						0.001 (J)
1/24/2019						0.00114 (J)
2/5/2019	<0.005				0.00156 (J)	0.00135 (J)
2/6/2019		<0.005	<0.005	<0.005		
6/24/2019						0.00125 (J)
8/19/2019						<0.005
8/20/2019					0.00176 (J)	
8/21/2019	<0.005					
8/22/2019		<0.005	<0.005	<0.005		
4/14/2020			<0.005	<0.005		
4/15/2020	<0.005	<0.005				<0.005
4/16/2020					0.00258 (J)	
8/25/2020	<0.005				0.0018 (J)	0.0011 (J)
8/26/2020		<0.005	<0.005	<0.005		

Time Series

Constituent: Lead (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				<0.005		
2/6/2018				<0.005		
4/23/2018				<0.005		
6/27/2018				<0.005		
8/7/2018				<0.005		
10/22/2018				<0.005		
10/24/2018	<0.005					
11/14/2018	<0.005					
11/28/2018	<0.005					
12/4/2018				<0.005		
12/5/2018	<0.005					
12/18/2018	<0.005					
1/3/2019	<0.005					
1/24/2019	<0.005					
2/5/2019	<0.005			<0.005		
8/19/2019	<0.005					
8/20/2019				<0.005		
4/14/2020			<0.005		<0.005	
4/15/2020		<0.005		<0.005		<0.005
4/16/2020	<0.005					
8/24/2020	<0.005					
8/25/2020		<0.005		<0.005		<0.005
8/26/2020			<0.005		<0.005	

Time Series

Constituent: Lead (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.005					
12/7/2017		<0.005		<0.005	<0.005	<0.005
2/6/2018	<0.005	<0.005		<0.005		
2/8/2018					<0.005	<0.005
4/24/2018	<0.005	<0.005				
4/25/2018				<0.005	<0.005	<0.005
6/26/2018		<0.005			<0.005	<0.005
6/27/2018	<0.005			<0.005		
8/6/2018		<0.005				
8/7/2018	<0.005			<0.005	<0.005	
8/8/2018						<0.005
10/22/2018	<0.005	<0.005				
10/23/2018				<0.005	<0.005	<0.005
12/3/2018	<0.005	<0.005			<0.005	
12/4/2018						<0.005
12/5/2018				<0.005		
2/5/2019	<0.005	<0.005		<0.005	<0.005	
2/6/2019						<0.005
6/18/2019	<0.005					
8/20/2019	<0.005	<0.005		<0.005	<0.005	
8/21/2019						<0.005
4/13/2020	<0.005			<0.005	<0.005	
4/15/2020		<0.005	<0.005			<0.005
8/24/2020				<0.005		
8/26/2020	<0.005	<0.005	<0.005		<0.005	<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.005	<0.005				
2/8/2018	<0.005	<0.005				
4/25/2018	<0.005	<0.005				
6/26/2018	<0.005	<0.005				
6/27/2018			<0.005		<0.005	<0.005
7/18/2018			<0.005		<0.005	<0.005
8/7/2018			<0.005			
8/8/2018	<0.005	<0.005			<0.005	<0.005
9/5/2018			<0.005		<0.005	<0.005
9/24/2018			<0.005		<0.005	<0.005
10/22/2018			<0.005			
10/23/2018	<0.005	<0.005			<0.005	<0.005
12/3/2018			<0.005		<0.005	<0.005
12/4/2018	<0.005					
12/5/2018		<0.005				
2/5/2019			<0.005			
2/6/2019	<0.005	<0.005				
2/7/2019					<0.005	<0.005
8/20/2019			<0.005			
8/21/2019	<0.005	<0.005			<0.005	<0.005
4/13/2020			<0.005	<0.005		
4/14/2020	<0.005	<0.005				
4/15/2020					<0.005	<0.005
8/24/2020			<0.005	<0.005	<0.005	<0.005
8/26/2020	<0.005	<0.005				

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.02	<0.02	<0.02	<0.02		
2/6/2018	<0.02					
2/7/2018		<0.02	<0.02			
2/8/2018				<0.02		
4/23/2018	<0.02					
4/24/2018		<0.02	<0.02	<0.02		
6/26/2018	<0.02					
6/27/2018		<0.02	<0.02	<0.02	<0.02	
7/18/2018					<0.02	
8/6/2018					<0.02	
8/7/2018	<0.02	<0.02				
8/8/2018			<0.02	<0.02		
9/5/2018					<0.02	
9/24/2018					<0.02	
10/22/2018	<0.02	<0.02				
10/23/2018			<0.02	<0.02		
10/24/2018					<0.02	<0.02
11/14/2018						<0.02
11/28/2018						<0.02
12/4/2018	<0.02	<0.02	<0.02			
12/5/2018				<0.02	<0.02	<0.02
12/18/2018						<0.02
1/3/2019						<0.02
1/24/2019						<0.02
2/5/2019	<0.02				<0.02	<0.02
2/6/2019		<0.02	<0.02	<0.02		
6/24/2019						<0.02
8/19/2019						<0.02
8/20/2019					<0.02	
8/21/2019	<0.02					
8/22/2019		<0.02	<0.02	<0.02		
4/14/2020			<0.02	<0.02		
4/15/2020	<0.02	<0.02				<0.02
4/16/2020					<0.02	
8/25/2020	<0.02				<0.02	<0.02
8/26/2020		<0.02	<0.02	<0.02		

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				0.092		
2/6/2018				0.0817		
4/23/2018				0.051		
6/27/2018				0.0734		
8/7/2018				0.0764		
10/22/2018				0.0804		
10/24/2018	<0.02					
11/14/2018	<0.02					
11/28/2018	0.0111 (J)					
12/4/2018				0.0474		
12/5/2018	0.0124 (J)					
12/18/2018	0.0121 (J)					
1/3/2019	0.0137 (J)					
1/24/2019	0.0134 (J)					
2/5/2019	0.0126 (J)			0.0545		
8/19/2019	<0.02					
8/20/2019				0.0583		
4/14/2020			<0.02		<0.02	
4/15/2020		<0.02		0.0406		0.0783
4/16/2020	0.0127 (J)					
7/1/2020						0.069
8/24/2020	<0.02					
8/25/2020		<0.02		0.041		0.0666
8/26/2020			<0.02		<0.02	

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.02					
12/7/2017		<0.02		<0.02	<0.02	<0.02
2/6/2018	<0.02	<0.02		<0.02		
2/8/2018					<0.02	<0.02
4/24/2018	<0.02	<0.02				
4/25/2018				<0.02	<0.02	<0.02
6/26/2018		<0.02			<0.02	<0.02
6/27/2018	<0.02			<0.02		
8/6/2018		<0.02				
8/7/2018	<0.02			<0.02	<0.02	
8/8/2018						<0.02
10/22/2018	<0.02	<0.02				
10/23/2018				<0.02	<0.02	<0.02
12/3/2018	<0.02	<0.02			<0.02	
12/4/2018						<0.02
12/5/2018				<0.02		
2/5/2019	<0.02	<0.02		<0.02	<0.02	
2/6/2019						<0.02
6/18/2019	<0.02					
8/20/2019	<0.02	<0.02		<0.02	<0.02	
8/21/2019						<0.02
4/13/2020	<0.02			<0.02	<0.02	
4/15/2020		<0.02	0.0219			<0.02
8/24/2020				<0.02		
8/26/2020	<0.02	<0.02	0.0203		<0.02	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.02	<0.02				
2/8/2018	<0.02	<0.02				
4/25/2018	<0.02	<0.02				
6/26/2018	<0.02	<0.02				
6/27/2018			<0.02		<0.02	<0.02
7/18/2018			<0.02		<0.02	<0.02
8/7/2018			<0.02			
8/8/2018	<0.02	<0.02			<0.02	<0.02
9/5/2018			<0.02		<0.02	<0.02
9/24/2018			<0.02		<0.02	<0.02
10/22/2018			<0.02			
10/23/2018	<0.02	<0.02			<0.02	<0.02
12/3/2018			<0.02		<0.02	<0.02
12/4/2018	<0.02					
12/5/2018		<0.02				
2/5/2019			<0.02			
2/6/2019	<0.02	<0.02				
2/7/2019					<0.02	<0.02
8/20/2019			<0.02			
8/21/2019	<0.02	<0.02			<0.02	<0.02
4/13/2020			<0.02	<0.02		
4/14/2020	<0.02	<0.02				
4/15/2020					<0.02	<0.02
8/24/2020			<0.02	<0.02	<0.02	<0.02
8/26/2020	<0.02	<0.02				

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.0005	<0.0005	<0.0005	<0.0005		
2/6/2018	<0.0005					
2/7/2018		<0.0005	<0.0005			
2/8/2018				<0.0005		
4/23/2018	<0.0005					
4/24/2018		<0.0005	<0.0005	<0.0005		
6/26/2018	<0.0005					
6/27/2018		<0.0005	<0.0005	<0.0005	0.000661	
7/18/2018					0.000398 (J)	
8/6/2018					0.00042 (J)	
8/7/2018	<0.0005	<0.0005				
8/8/2018			<0.0005	<0.0005		
9/5/2018					0.00037 (J)	
9/24/2018					0.000329 (J)	
10/22/2018	<0.0005	<0.0005				
10/23/2018			<0.0005	<0.0005		
10/24/2018					<0.0005	<0.0005
11/14/2018						<0.0005
11/28/2018						<0.0005
12/4/2018	<0.0005	0.000302 (J)	<0.0005			
12/5/2018				<0.0005	0.000253 (J)	<0.0005
12/18/2018						<0.0005
1/3/2019						<0.0005
1/24/2019						0.000411 (J)
2/5/2019	<0.0005				0.000664	0.000473 (J)
2/6/2019		<0.0005	<0.0005	<0.0005		
8/19/2019						<0.0005
8/20/2019					0.000301 (J)	
8/21/2019	<0.0005					
8/22/2019		<0.0005	<0.0005	<0.0005		
4/14/2020			<0.0005	<0.0005		
4/15/2020	<0.0005	<0.0005				<0.0005
4/16/2020					0.000558	
8/25/2020	<0.0005				<0.0005	<0.0005
8/26/2020		<0.0005	<0.0005	<0.0005		

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				<0.0005		
2/6/2018				<0.0005		
4/23/2018				<0.0005		
6/27/2018				<0.0005		
8/7/2018				<0.0005		
10/22/2018				<0.0005		
10/24/2018	<0.0005					
11/14/2018	<0.0005					
11/28/2018	<0.0005					
12/4/2018				<0.0005		
12/5/2018	<0.0005					
12/18/2018	<0.0005					
1/3/2019	<0.0005					
1/24/2019	<0.0005					
2/5/2019	<0.0005			<0.0005		
8/19/2019	<0.0005					
8/20/2019				<0.0005		
4/14/2020			<0.0005		<0.0005	
4/15/2020		<0.0005		<0.0005		<0.0005
4/16/2020	<0.0005					
8/24/2020	<0.0005					
8/25/2020		<0.0005		<0.0005		<0.0005
8/26/2020			<0.0005		<0.0005	

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.0005					
12/7/2017		<0.0005		<0.0005	<0.0005	<0.0005
2/6/2018	<0.0005	<0.0005		<0.0005		
2/8/2018					<0.0005	<0.0005
4/24/2018	<0.0005	<0.0005				
4/25/2018				<0.0005	<0.0005	<0.0005
6/26/2018		<0.0005			<0.0005	<0.0005
6/27/2018	<0.0005			<0.0005		
8/6/2018		<0.0005				
8/7/2018	<0.0005			<0.0005	<0.0005	
8/8/2018						<0.0005
10/22/2018	<0.0005	<0.0005				
10/23/2018				<0.0005	<0.0005	<0.0005
12/3/2018	<0.0005	<0.0005			<0.0005	
12/4/2018						0.00034 (J)
12/5/2018				<0.0005		
2/5/2019	<0.0005	<0.0005		<0.0005	<0.0005	
2/6/2019						<0.0005
8/20/2019	<0.0005	<0.0005		<0.0005	<0.0005	
8/21/2019						<0.0005
4/13/2020	<0.0005			<0.0005	<0.0005	
4/15/2020		<0.0005	<0.0005			<0.0005
8/24/2020				<0.0005		
8/26/2020	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.0005	<0.0005				
2/8/2018	<0.0005	<0.0005				
4/25/2018	<0.0005	<0.0005				
6/26/2018	<0.0005	<0.0005				
6/27/2018			<0.0005		<0.0005	<0.0005
7/18/2018			<0.0005		<0.0005	<0.0005
8/7/2018			<0.0005			
8/8/2018	<0.0005	<0.0005			<0.0005	<0.0005
9/5/2018			<0.0005		<0.0005	<0.0005
9/24/2018			<0.0005		<0.0005	<0.0005
10/22/2018			<0.0005			
10/23/2018	<0.0005	<0.0005			<0.0005	<0.0005
12/3/2018			<0.0005		<0.0005	<0.0005
12/4/2018	0.000284 (J)					
12/5/2018		<0.0005				
2/5/2019			<0.0005			
2/6/2019	<0.0005	<0.0005				
2/7/2019					<0.0005	<0.0005
8/20/2019			<0.0005			
8/21/2019	<0.0005	<0.0005			<0.0005	<0.0005
4/13/2020			<0.0005	<0.0005		
4/14/2020	<0.0005	<0.0005				
4/15/2020					<0.0005	<0.0005
8/24/2020			<0.0005	<0.0005	<0.0005	<0.0005
8/26/2020	<0.0005	<0.0005				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.01	<0.01	<0.01	<0.01		
2/6/2018	<0.01					
2/7/2018		<0.01	<0.01			
2/8/2018				<0.01		
4/23/2018	<0.01					
4/24/2018		<0.01	<0.01	<0.01		
6/26/2018	<0.01					
6/27/2018		<0.01	<0.01	<0.01	<0.01	
7/18/2018					<0.01	
8/6/2018					<0.01	
8/7/2018	<0.01	<0.01				
8/8/2018			<0.01	<0.01		
9/5/2018					<0.01	
9/24/2018					<0.01	
10/22/2018	<0.01	<0.01				
10/23/2018			<0.01	<0.01		
10/24/2018					<0.01	<0.01
11/14/2018						<0.01
11/28/2018						<0.01
12/4/2018	<0.01	<0.01	<0.01			
12/5/2018				<0.01	<0.01	<0.01
12/18/2018						<0.01
1/3/2019						<0.01
1/24/2019						<0.01
2/5/2019	<0.01				<0.01	<0.01
2/6/2019		<0.01	<0.01	<0.01		
6/24/2019						<0.01
8/19/2019						<0.01
8/20/2019					<0.01	
8/21/2019	<0.01					
8/22/2019		<0.01	<0.01	<0.01		
4/14/2020			<0.01	<0.01		
4/15/2020	<0.01	<0.01				<0.01
4/16/2020					<0.01	
8/25/2020	<0.01				<0.01	<0.01
8/26/2020		<0.01	<0.01	<0.01		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				0.0254		
2/6/2018				0.0239		
4/23/2018				0.0165		
6/27/2018				0.0302		
8/7/2018				0.0209		
10/22/2018				0.0198		
10/24/2018	0.00507 (J)					
11/14/2018	0.00358 (J)					
11/28/2018	0.00322 (J)					
12/4/2018				0.0118		
12/5/2018	0.00256 (J)					
12/18/2018	0.00215 (J)					
1/3/2019	0.00257 (J)					
1/24/2019	0.00211 (J)					
2/5/2019	0.00205 (J)			0.0196		
8/19/2019	<0.01					
8/20/2019				0.027		
4/14/2020			<0.01		<0.01	
4/15/2020		<0.01		0.0202		<0.01
4/16/2020	<0.01					
8/24/2020	<0.01					
8/25/2020		<0.01		0.0269		0.00323 (J)
8/26/2020			<0.01		<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.01					
12/7/2017		<0.01		<0.01	<0.01	<0.01
2/6/2018	<0.01	<0.01		<0.01		
2/8/2018					<0.01	<0.01
4/24/2018	<0.01	<0.01				
4/25/2018				<0.01	<0.01	<0.01
6/26/2018		<0.01			<0.01	<0.01
6/27/2018	<0.01			<0.01		
8/6/2018		<0.01				
8/7/2018	<0.01			<0.01	<0.01	
8/8/2018						<0.01
10/22/2018	<0.01	<0.01				
10/23/2018				<0.01	<0.01	<0.01
12/3/2018	<0.01	<0.01			<0.01	
12/4/2018						<0.01
12/5/2018				<0.01		
2/5/2019	<0.01	<0.01		<0.01	<0.01	
2/6/2019						<0.01
6/18/2019	<0.01					
8/20/2019	<0.01	<0.01		<0.01	<0.01	
8/21/2019						<0.01
4/13/2020	<0.01			<0.01	<0.01	
4/15/2020		<0.01	<0.01			<0.01
8/24/2020				<0.01		
8/26/2020	<0.01	<0.01	<0.01		<0.01	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.01	<0.01				
2/8/2018	<0.01	<0.01				
4/25/2018	<0.01	<0.01				
6/26/2018	<0.01	<0.01				
6/27/2018			<0.01		<0.01	<0.01
7/18/2018			<0.01		<0.01	<0.01
8/7/2018			<0.01			
8/8/2018	<0.01	<0.01			<0.01	<0.01
9/5/2018			<0.01		<0.01	<0.01
9/24/2018			<0.01		<0.01	<0.01
10/22/2018			<0.01			
10/23/2018	<0.01	<0.01			<0.01	<0.01
12/3/2018			<0.01		<0.01	<0.01
12/4/2018	<0.01					
12/5/2018		<0.01				
2/5/2019			<0.01			
2/6/2019	<0.01	<0.01				
2/7/2019					<0.01	<0.01
8/20/2019			<0.01			
8/21/2019	<0.01	<0.01			<0.01	<0.01
4/13/2020			<0.01	<0.01		
4/14/2020	<0.01	<0.01				
4/15/2020					<0.01	<0.01
8/24/2020			<0.01	<0.01	<0.01	<0.01
8/26/2020	<0.01	<0.01				

Time Series

Constituent: pH (pH) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	6.5	6.83	6.81	5.6		
2/6/2018	6.48					
2/7/2018		6.82	6.74			
2/8/2018				5.44		
4/23/2018	6.36					
4/24/2018		6.74	6.62	5.41		
6/26/2018	6.32					
6/27/2018		6.67	6.69	5.45	3.95	
7/18/2018					4.02	
8/6/2018					4.07	
8/7/2018	6.32	6.72				
8/8/2018			6.67	5.46		
9/5/2018					4.07	
9/24/2018					4.07	
10/22/2018	6.2	6.73				
10/23/2018			6.73	5.47		
10/24/2018					4.1	5.27
11/14/2018						4.99
11/28/2018						4.74
12/4/2018	6.31	6.77	6.67			
12/5/2018				5.45	4.1	4.76
12/18/2018						4.57
1/3/2019						4.56
1/24/2019						4.45
2/5/2019	6.1				4.02	4.3
2/6/2019		6.67	6.58	5.31		
2/26/2019	6.11	6.77				
2/27/2019			6.56	5.4		
2/28/2019					3.94 (E)	4.35
8/19/2019						4.57
8/20/2019					4	
8/21/2019	6.01					
8/22/2019		6.37	6.26	5.35		
4/14/2020			6.63	5.39		
4/15/2020	5.65	6.85				4.49
4/16/2020					3.93	
8/25/2020	6				4.03	4.2
8/26/2020		6.73	6.38	5.63		

Time Series

Constituent: pH (pH) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				6.61		
2/6/2018				6.66		
4/23/2018				6.54		
6/27/2018				6.63		
8/7/2018				6.57		
10/22/2018				6.55		
10/24/2018	7.92					
11/14/2018	8.23					
11/28/2018	8.95					
12/4/2018				6.52		
12/5/2018	8.77					
12/18/2018	8.99					
1/3/2019	9.35					
1/24/2019	9.42					
2/5/2019	9.23			6.47		
2/26/2019				6.54		
2/28/2019	9.48					
8/19/2019	7.93					
8/20/2019				6.3		
4/14/2020			5.79		6.02	
4/15/2020		5.1		6.45		8.6
4/16/2020	8.1					
7/1/2020						8.36
8/24/2020	8.17					
8/25/2020		5.13		6.65		8.43
8/26/2020			6.33		6.36	

Time Series

Constituent: pH (pH) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	6.54					
12/7/2017		6.73		6.32	6.38	6.62
2/6/2018	6.39	6.76		6.27		
2/8/2018					6.29	6.39
4/24/2018	6.02	6.66				
4/25/2018				6.14	6.15	6.17
6/26/2018		6.61			6.09	6.38
6/27/2018	6.07			6.15		
8/6/2018		6.68				
8/7/2018	6.28			6.18	6.16	
8/8/2018						6.56
10/22/2018	6.3	6.63				
10/23/2018				6.15	6.1	6.54
12/3/2018	6.38	6.67			6.09	
12/4/2018						6.33
12/5/2018				6.15		
2/5/2019	5.83	6.63		6.08	6.04	
2/6/2019						6.13
2/25/2019	5.93					
2/26/2019		6.64			6.17	
2/27/2019				6.11		6.12
8/20/2019	5.73	6.33		6.11	5.4	
8/21/2019						5.97
4/13/2020	5.83			6.18	5.82	
4/15/2020		6.77	7.93			6.16
8/24/2020				6.11		
8/26/2020	5.87	6.68	7.83		5.96	6.11

Time Series

Constituent: pH (pH) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	6.81	6.93				
2/8/2018	6.73	6.96				
2/12/2018		6.88				
4/25/2018	6.61	6.89				
6/26/2018	6.59	6.85				
6/27/2018			6.79		5.81	5.44
7/18/2018			6.8		5.74	5.58
8/7/2018			6.73			
8/8/2018	6.6	6.94			5.7	5.55
9/5/2018			6.75		5.61	5.56
9/24/2018			6.83		5.59	5.57
10/22/2018			6.76			
10/23/2018	6.64	6.93			5.6	5.55
12/3/2018			6.6		5.73	5.6
12/4/2018	6.68					
12/5/2018		6.94				
2/5/2019			6.66			
2/6/2019	6.62	6.73				
2/7/2019					5.44	5.51
2/25/2019			6.6		5.46	5.54
2/27/2019	6.56	6.85				
8/20/2019			6.3			
8/21/2019	6.16	6.61			5.13	5.44
4/13/2020			6.66	5.84		
4/14/2020	6.49	7.02				
4/15/2020					5.31	5.52
8/24/2020			6.64	6	4.65	5.38
8/26/2020	6.29	6.75				

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.01	<0.01	<0.01	<0.01		
2/6/2018	<0.01					
2/7/2018		<0.01	<0.01			
2/8/2018				<0.01		
4/23/2018	<0.01					
4/24/2018		<0.01	<0.01	<0.01		
6/26/2018	<0.01					
6/27/2018		<0.01	<0.01	<0.01	<0.01	
7/18/2018					<0.01	
8/6/2018					<0.01	
8/7/2018	<0.01	<0.01				
8/8/2018			<0.01	<0.01		
9/5/2018					<0.01	
9/24/2018					<0.01	
10/22/2018	<0.01	<0.01				
10/23/2018			<0.01	<0.01		
10/24/2018					<0.01	<0.01
11/14/2018						<0.01
11/28/2018						<0.01
12/4/2018	<0.01	<0.01	<0.01			
12/5/2018				<0.01	0.00208 (J)	0.00349 (J)
12/18/2018						0.00395 (J)
1/3/2019						0.00488 (J)
1/24/2019						0.00707 (J)
2/5/2019	<0.01				0.00387 (J)	0.00938 (J)
2/6/2019		<0.01	<0.01	<0.01		
6/24/2019						0.00563 (J)
8/19/2019						0.00316 (J)
8/20/2019					0.00328 (J)	
8/21/2019	<0.01					
8/22/2019		<0.01	<0.01	<0.01		
4/14/2020			<0.01	<0.01		
4/15/2020	<0.01	<0.01				0.00434 (J)
4/16/2020					0.00608 (J)	
8/25/2020	<0.01				0.00247 (J)	0.00262 (J)
8/26/2020		<0.01	<0.01	<0.01		

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				<0.01		
2/6/2018				<0.01		
4/23/2018				<0.01		
6/27/2018				<0.01		
8/7/2018				<0.01		
10/22/2018				<0.01		
10/24/2018	<0.01					
11/14/2018	<0.01					
11/28/2018	<0.01					
12/4/2018				<0.01		
12/5/2018	<0.01					
12/18/2018	<0.01					
1/3/2019	<0.01					
1/24/2019	<0.01					
2/5/2019	<0.01			<0.01		
8/19/2019	<0.01					
8/20/2019				<0.01		
4/14/2020			<0.01		<0.01	
4/15/2020		<0.01		<0.01		<0.01
4/16/2020	<0.01					
8/24/2020	<0.01					
8/25/2020		<0.01		<0.01		<0.01
8/26/2020			<0.01		<0.01	

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.01					
12/7/2017		<0.01		<0.01	<0.01	<0.01
2/6/2018	<0.01	<0.01		<0.01		
2/8/2018					<0.01	<0.01
4/24/2018	<0.01	<0.01				
4/25/2018				<0.01	<0.01	<0.01
6/26/2018		<0.01			<0.01	<0.01
6/27/2018	<0.01			<0.01		
8/6/2018		<0.01				
8/7/2018	<0.01			<0.01	<0.01	
8/8/2018						<0.01
10/22/2018	<0.01	<0.01				
10/23/2018				<0.01	<0.01	<0.01
12/3/2018	<0.01	<0.01			<0.01	
12/4/2018						<0.01
12/5/2018				<0.01		
2/5/2019	<0.01	<0.01		<0.01	<0.01	
2/6/2019						<0.01
6/18/2019	<0.01					
8/20/2019	<0.01	<0.01		<0.01	<0.01	
8/21/2019						<0.01
4/13/2020	<0.01			<0.01	<0.01	
4/15/2020		<0.01	<0.01			<0.01
8/24/2020				<0.01		
8/26/2020	<0.01	<0.01	<0.01		<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.01	<0.01				
2/8/2018	<0.01	<0.01				
4/25/2018	<0.01	<0.01				
6/26/2018	<0.01	<0.01				
6/27/2018			<0.01		<0.01	<0.01
7/18/2018			<0.01		<0.01	<0.01
8/7/2018			<0.01			
8/8/2018	<0.01	<0.01			<0.01	<0.01
9/5/2018			<0.01		<0.01	<0.01
9/24/2018			<0.01		<0.01	<0.01
10/22/2018			<0.01			
10/23/2018	<0.01	<0.01			<0.01	<0.01
12/3/2018			<0.01		<0.01	<0.01
12/4/2018	<0.01					
12/5/2018		<0.01				
2/5/2019			<0.01			
2/6/2019	<0.01	<0.01				
2/7/2019					<0.01	<0.01
8/20/2019			<0.01			
8/21/2019	<0.01	<0.01			<0.01	<0.01
4/13/2020			<0.01	<0.01		
4/14/2020	<0.01	<0.01				
4/15/2020					<0.01	<0.01
8/24/2020			<0.01	<0.01	<0.01	<0.01
8/26/2020	<0.01	<0.01				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	650	11	83	200		
2/6/2018	560					
2/7/2018		19	84			
2/8/2018				200		
4/23/2018	640					
4/24/2018		27	98	210		
6/26/2018	670					
6/27/2018		<1	95	240	120	
7/18/2018					120	
8/6/2018					110	
8/7/2018	660	<1				
8/8/2018			110	260		
9/5/2018					86	
9/24/2018					80	
10/22/2018	580	<1				
10/23/2018			78	280		
10/24/2018					68	44
11/14/2018						44
11/28/2018						46
12/4/2018	580	11	97			
12/5/2018				280	54	51
12/18/2018						76
1/3/2019						94
1/24/2019						135
2/5/2019	702				126	183
2/6/2019		16.8	113	239		
2/26/2019	748	38.4				
2/27/2019			135	257		
2/28/2019					207	192
6/24/2019						129 (D)
8/19/2019						66.6
8/20/2019					106	
8/21/2019	708					
8/22/2019		6.74	305	339		
4/14/2020			146	155		
4/15/2020	647	50.7				92.8
4/16/2020					191	
8/25/2020	642				98.4	74.1
8/26/2020		10.5	280	282		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				210		
2/6/2018				190		
4/23/2018				140		
6/27/2018				130		
8/7/2018				150		
10/22/2018				160		
10/24/2018	16					
11/14/2018	13					
11/28/2018	11					
12/4/2018				170		
12/5/2018	12					
12/18/2018	11					
1/3/2019	10					
1/24/2019	10.2					
2/5/2019	10.4			145		
2/26/2019				148		
2/28/2019	9.86					
8/19/2019	8.74					
8/20/2019				110		
4/14/2020			75.3		135	
4/15/2020		67.1		116		4.18
4/16/2020	11.5					
8/24/2020	10					
8/25/2020		52.6		114		4.83
8/26/2020			72.9		112	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	250					
12/7/2017		<1		19	10	14
2/6/2018	230	<1		20		
2/8/2018					11	10
4/24/2018	260	<1				
4/25/2018				22	13	11
6/26/2018		<1			11	11
6/27/2018	230			18		
8/6/2018		<1				
8/7/2018	200			20	12	
8/8/2018						13
10/22/2018	190	<1				
10/23/2018				18	11	13
12/3/2018	200	<1			12	
12/4/2018						9.8
12/5/2018				20		
2/5/2019	263	5.38		24.3	13.9	
2/6/2019						10.8
2/25/2019	246					
2/26/2019		5.1			14.1	
2/27/2019				24.7		8.98
6/18/2019	245					
8/20/2019	222	7.34		21.3	12.3	
8/21/2019						11.8
4/13/2020	256			21.9	13.9	
4/15/2020		17.2	1.25			7.95
8/24/2020				21.2		
8/26/2020	246	15.5	1.21		13.1	9.19

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	6.5	9				
2/8/2018	8.9					
2/12/2018		8.3				
4/25/2018	7.9	12				
6/26/2018	7.5	8.5				
6/27/2018			2.2 (J)		<1	<1
7/18/2018			2.5 (J)		<1	<1
8/7/2018			<1			
8/8/2018	7.3	6.7			<1	<1
9/5/2018			1.4 (J)		<1	<1
9/24/2018			<1		<1	<1
10/22/2018			1.7 (J)			
10/23/2018	7.8	9.4			<1	<1
12/3/2018			2.1 (J)		<1	<1
12/4/2018	8.2					
12/5/2018		7.8				
2/5/2019			3.99			
2/6/2019	9.53	17				
2/7/2019					0.639 (J)	1.69
2/25/2019			4.01		<1	1.53
2/27/2019	8.25	12.4				
8/20/2019			3.73			
8/21/2019	10.8	11.3			1.21	1.62
4/13/2020			3.83	1.48		
4/14/2020	12.5	15.9				
4/15/2020					0.554 (J)	1.68
8/24/2020			4.16	3.88	<1	1.31
8/26/2020	16.1	12.9				

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	<0.001	<0.001	<0.001	<0.001		
2/6/2018	<0.001					
2/7/2018		<0.001	<0.001			
2/8/2018				<0.001		
4/23/2018	<0.001					
4/24/2018		<0.001	<0.001	<0.001		
6/26/2018	<0.001					
6/27/2018		<0.001	<0.001	<0.001	<0.001	
7/18/2018					<0.001	
8/6/2018					<0.001	
8/7/2018	<0.001	<0.001				
8/8/2018			<0.001	<0.001		
9/5/2018					<0.001	
9/24/2018					<0.001	
10/22/2018	<0.001	<0.001				
10/23/2018			<0.001	<0.001		
10/24/2018					<0.001	<0.001
11/14/2018						<0.001
11/28/2018						<0.001
12/4/2018	<0.001	<0.001	<0.001			
12/5/2018				<0.001	<0.001	<0.001
12/18/2018						<0.001
1/3/2019						<0.001
1/24/2019						<0.001
2/5/2019	<0.001				<0.001	<0.001
2/6/2019		<0.001	<0.001	<0.001		
6/24/2019						<0.001
8/19/2019						<0.001
8/20/2019					<0.001	
8/21/2019	<0.001					
8/22/2019		<0.001	<0.001	<0.001		
4/14/2020			<0.001	<0.001		
4/15/2020	<0.001	<0.001				<0.001
4/16/2020					<0.001	
8/25/2020	<0.001				<0.001	<0.001
8/26/2020		<0.001	<0.001	<0.001		

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				<0.001		
2/6/2018				<0.001		
4/23/2018				<0.001		
6/27/2018				<0.001		
8/7/2018				<0.001		
10/22/2018				0.000213 (J)		
10/24/2018	<0.001					
11/14/2018	<0.001					
11/28/2018	<0.001					
12/4/2018				<0.001		
12/5/2018	<0.001					
12/18/2018	<0.001					
1/3/2019	<0.001					
1/24/2019	<0.001					
2/5/2019	<0.001			0.000256 (J)		
8/19/2019	<0.001					
8/20/2019				0.000322 (J)		
4/14/2020			<0.001		<0.001	
4/15/2020		<0.001		0.000318 (J)		<0.001
4/16/2020	<0.001					
8/24/2020	<0.001					
8/25/2020		<0.001		0.000347 (J)		<0.001
8/26/2020			<0.001		<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	<0.001					
12/7/2017		<0.001		<0.001	<0.001	<0.001
2/6/2018	<0.001	<0.001		<0.001		
2/8/2018					<0.001	<0.001
4/24/2018	<0.001	<0.001				
4/25/2018				<0.001	<0.001	<0.001
6/26/2018		<0.001			<0.001	<0.001
6/27/2018	<0.001			<0.001		
8/6/2018		<0.001				
8/7/2018	<0.001			<0.001	<0.001	
8/8/2018						<0.001
10/22/2018	<0.001	<0.001				
10/23/2018				<0.001	<0.001	<0.001
12/3/2018	<0.001	<0.001			<0.001	
12/4/2018						<0.001
12/5/2018				<0.001		
2/5/2019	<0.001	<0.001		<0.001	<0.001	
2/6/2019						<0.001
6/18/2019	<0.001					
8/20/2019	<0.001	<0.001		<0.001	<0.001	
8/21/2019						<0.001
4/13/2020	<0.001			<0.001	<0.001	
4/15/2020		<0.001	<0.001			<0.001
8/24/2020				<0.001		
8/26/2020	<0.001	<0.001	<0.001		<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	<0.001	<0.001				
2/8/2018	<0.001	<0.001				
4/25/2018	<0.001	<0.001				
6/26/2018	<0.001	<0.001				
6/27/2018			<0.001		<0.001	<0.001
7/18/2018			<0.001		<0.001	<0.001
8/7/2018			<0.001			
8/8/2018	<0.001	<0.001			<0.001	<0.001
9/5/2018			<0.001		<0.001	<0.001
9/24/2018			<0.001		<0.001	<0.001
10/22/2018			<0.001			
10/23/2018	<0.001	<0.001			<0.001	<0.001
12/3/2018			<0.001		<0.001	<0.001
12/4/2018	<0.001					
12/5/2018		<0.001				
2/5/2019			<0.001			
2/6/2019	<0.001	<0.001				
2/7/2019					<0.001	<0.001
8/20/2019			<0.001			
8/21/2019	<0.001	<0.001			<0.001	<0.001
4/13/2020			<0.001	<0.001		
4/14/2020	<0.001	<0.001				
4/15/2020					<0.001	<0.001
8/24/2020			<0.001	<0.001	<0.001	<0.001
8/26/2020	<0.001	<0.001				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-10	GSD-AP-MW-11	GSD-AP-MW-12	GSD-AP-MW-14 ...	GSD-AP-MW-16 ...
12/6/2017	1300	215	312	371		
2/6/2018	1310					
2/7/2018		237	323			
2/8/2018				367		
4/23/2018	1210					
4/24/2018		242	324	365		
6/26/2018	1250					
6/27/2018		194	333	421	219	
7/18/2018					195	
8/6/2018					175	
8/7/2018	1220	195				
8/8/2018			346	479		
9/5/2018					153	
9/24/2018					127	
10/22/2018	1150	184				
10/23/2018			311	507		
10/24/2018					125	107
11/14/2018						96.7
11/28/2018						102
12/4/2018	1090	215	343			
12/5/2018				479	101	103
12/18/2018						126
1/3/2019						191
1/24/2019						212
2/5/2019	1200				180	269
2/6/2019		208	317	399		
2/26/2019	1210	252				
2/27/2019			360	422		
2/28/2019					287	261
6/24/2019						203.5 (D)
8/19/2019						121
8/20/2019					265	
8/21/2019	1200					
8/22/2019		194	555	501		
4/14/2020			372	278		
4/15/2020	1060	262				155
4/16/2020					280	
8/25/2020	1060				160	131
8/26/2020		186	517	472		

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17 ...	GSD-AP-MW-18H	GSD-AP-MW-19H	GSD-AP-MW-2	GSD-AP-MW-20H	GSD-AP-MW-2VA
12/6/2017				574		
2/6/2018				572		
4/23/2018				414		
6/27/2018				440		
8/7/2018				485		
10/22/2018				484		
10/24/2018	184					
11/14/2018	170					
11/28/2018	167					
12/4/2018				504		
12/5/2018	185					
12/18/2018	164					
1/3/2019	167					
1/24/2019	137					
2/5/2019	138			366		
2/26/2019				372		
2/28/2019	140					
8/19/2019	240					
8/20/2019				369		
4/14/2020			190		323	
4/15/2020		126		300		324
4/16/2020	166					
8/24/2020	162					
8/25/2020		107		339		321
8/26/2020			202		310	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-4	GSD-AP-MW-4V	GSD-AP-MW-5	GSD-AP-MW-6	GSD-AP-MW-7
12/6/2017	628					
12/7/2017		189		215	136	137
2/6/2018	556	206		204		
2/8/2018					122	124
4/24/2018	510	193				
4/25/2018				192	102	106
6/26/2018		180			106	129
6/27/2018	486			180		
8/6/2018		182				
8/7/2018	487			183	71.3	
8/8/2018						142
10/22/2018	450	204				
10/23/2018				169	105	142
12/3/2018	492	168			102	
12/4/2018						121
12/5/2018				177		
2/5/2019	428	158		198	107	
2/6/2019						108
2/25/2019	441					
2/26/2019		191			99.3	
2/27/2019				185		103
6/18/2019	422					
8/20/2019	416	164		174	98.7	
8/21/2019						133
4/13/2020	433			192	90.7	
4/15/2020		170	218			102
8/24/2020				175		
8/26/2020	455	168	239		91.3	109

Time Series

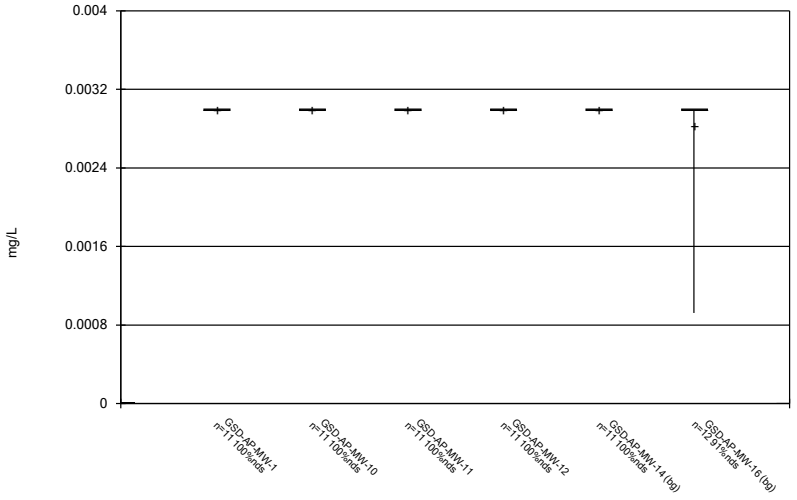
Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2020 3:05 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-9	GSD-AP-PZ-1	GSD-AP-PZ-2	GSD-AP-PZ-5	GSD-AP-PZ-6
12/7/2017	253	183				
2/8/2018	229					
2/12/2018		201				
4/25/2018	223	180				
6/26/2018	232	191				
6/27/2018			144		48.7	44
7/18/2018			156		46	42.7
8/7/2018			140			
8/8/2018	208	192			48	46
9/5/2018			154		47.3	67.3
9/24/2018			165		44.7	49.3
10/22/2018			148			
10/23/2018	209	185			35.3	31.3
12/3/2018			127		48.7	46
12/4/2018	213					
12/5/2018		200				
2/5/2019			113			
2/6/2019	212	151				
2/7/2019					42.7	32.7
2/25/2019			106		40.7	31.3
2/27/2019	211	186				
8/20/2019			141			
8/21/2019	226	200			46	42.7
4/13/2020			104	88		
4/14/2020	222	187				
4/15/2020					41.3	37.3
8/24/2020			114	115	42.7	37.3
8/26/2020	215	192				

FIGURE B.

Box & Whiskers Plot

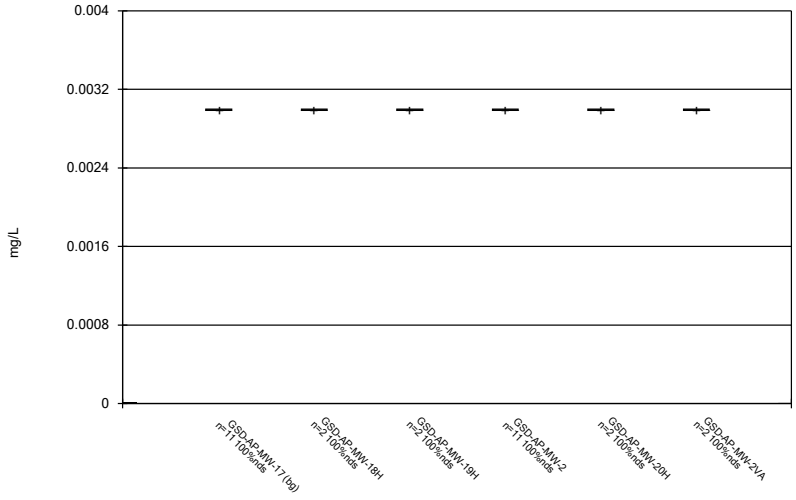


Constituent: Antimony Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

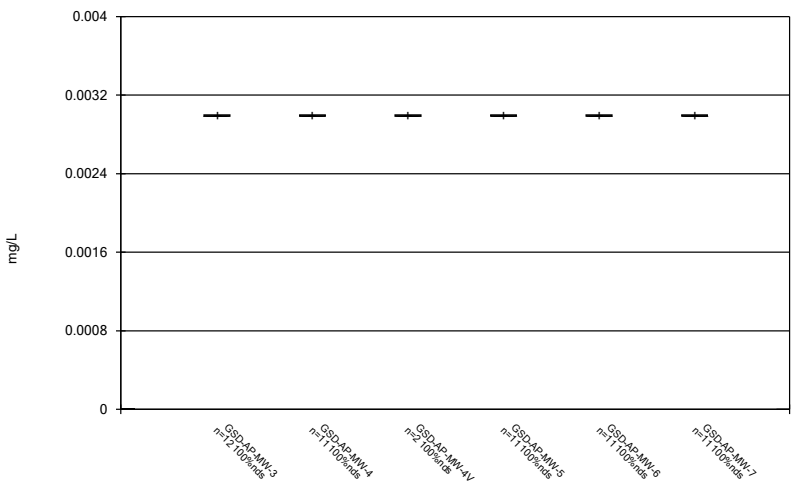


Constituent: Antimony Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

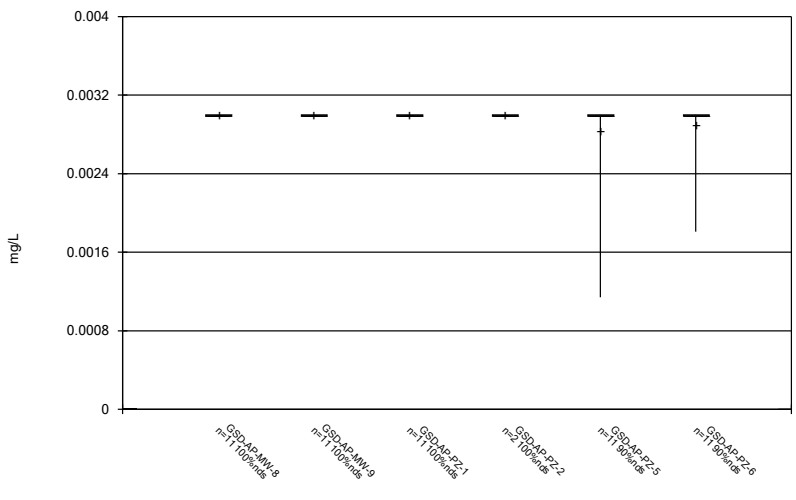


Constituent: Antimony Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

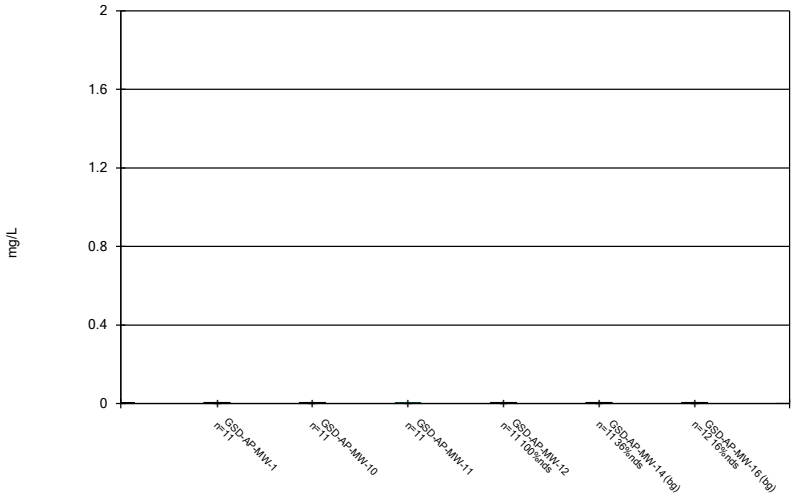
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

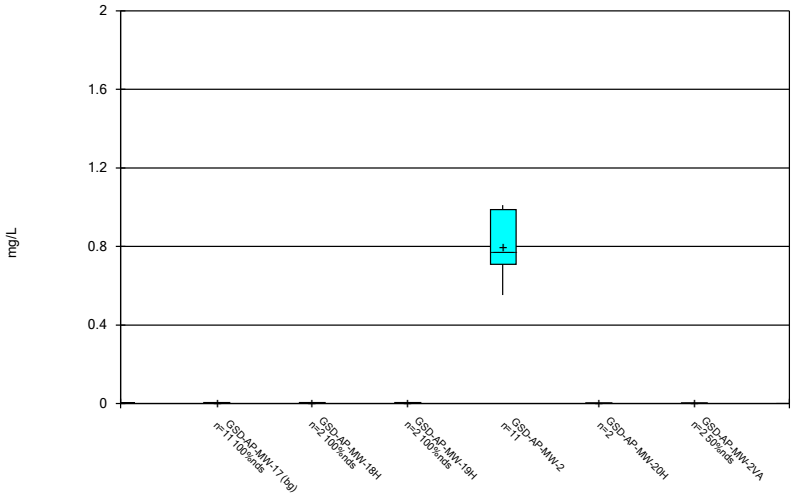


Constituent: Arsenic Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

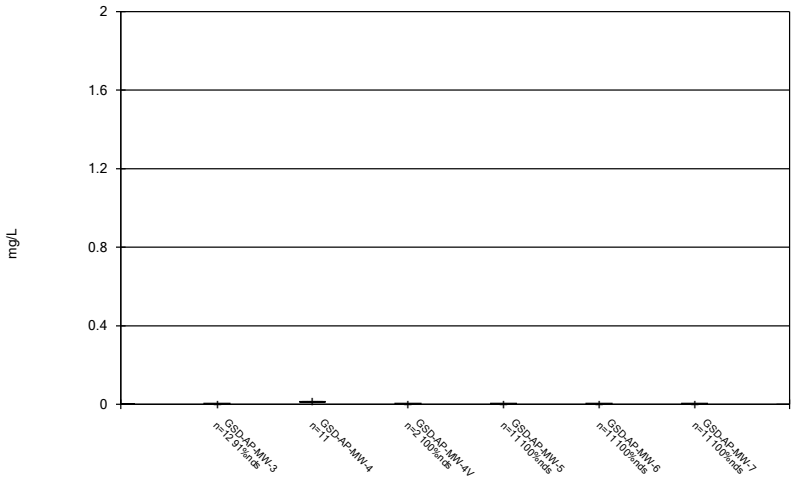


Constituent: Arsenic Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

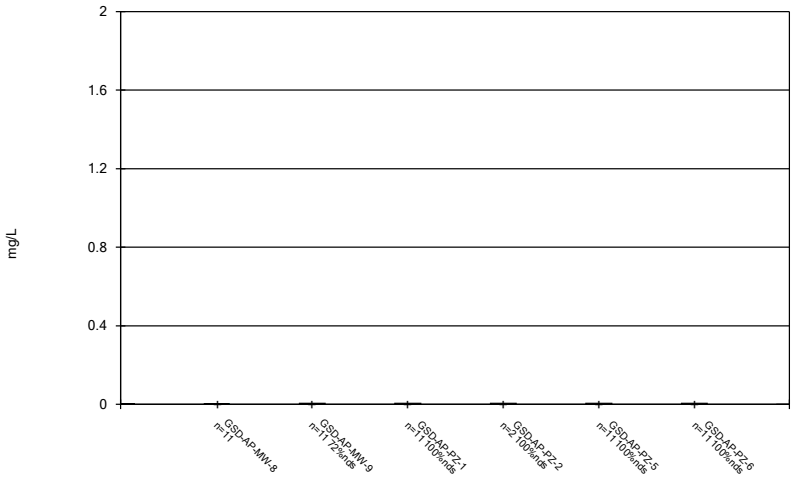


Constituent: Arsenic Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

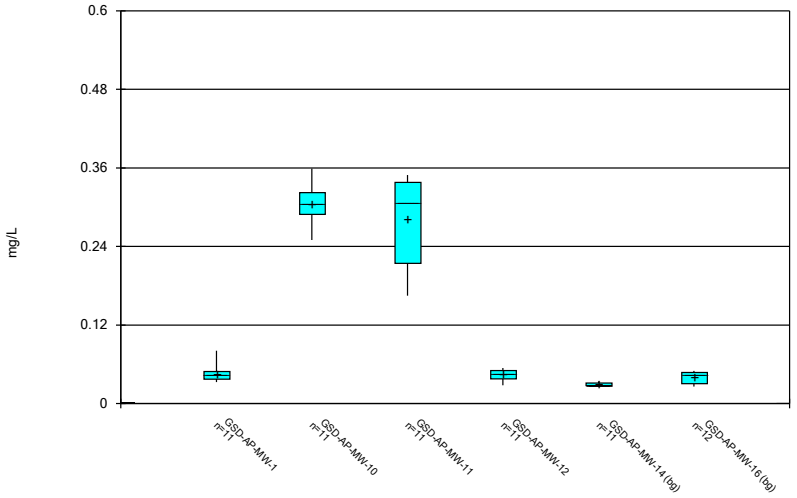
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

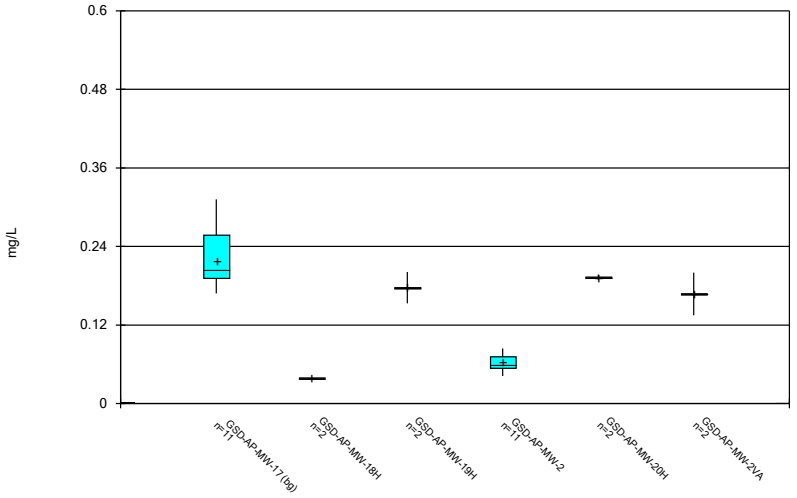


Constituent: Barium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

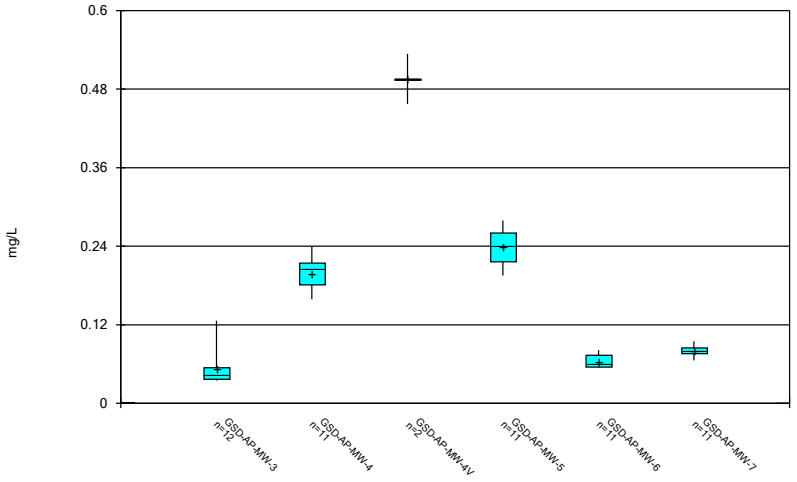


Constituent: Barium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

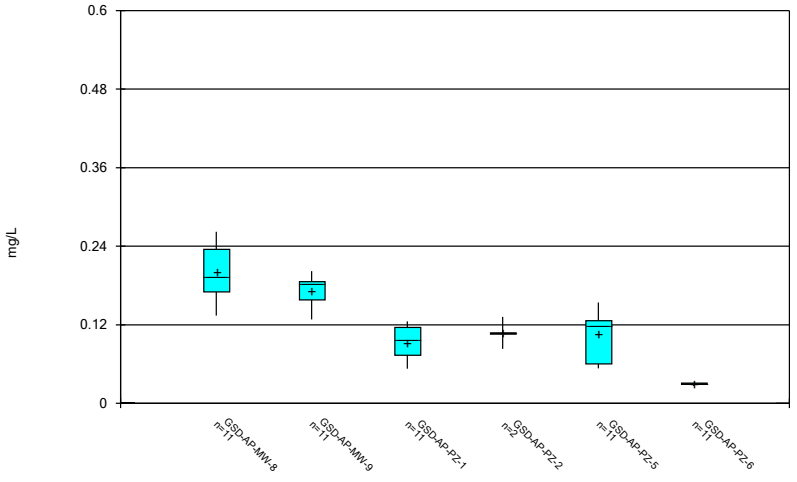


Constituent: Barium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

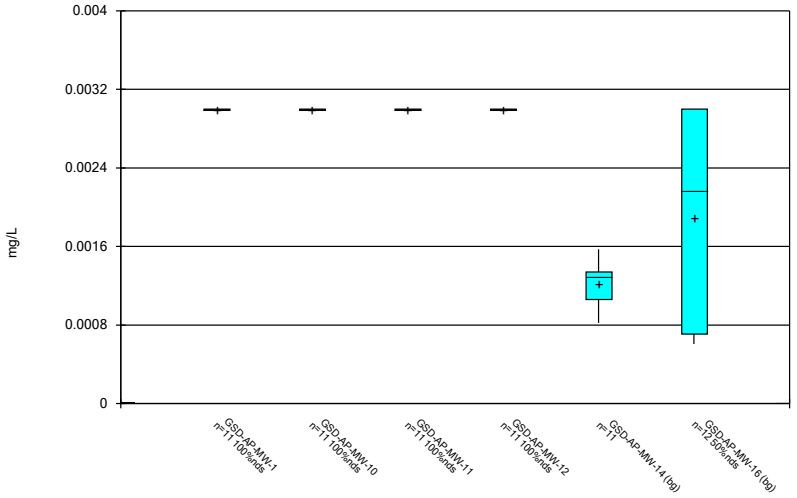
Box & Whiskers Plot



Constituent: Barium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

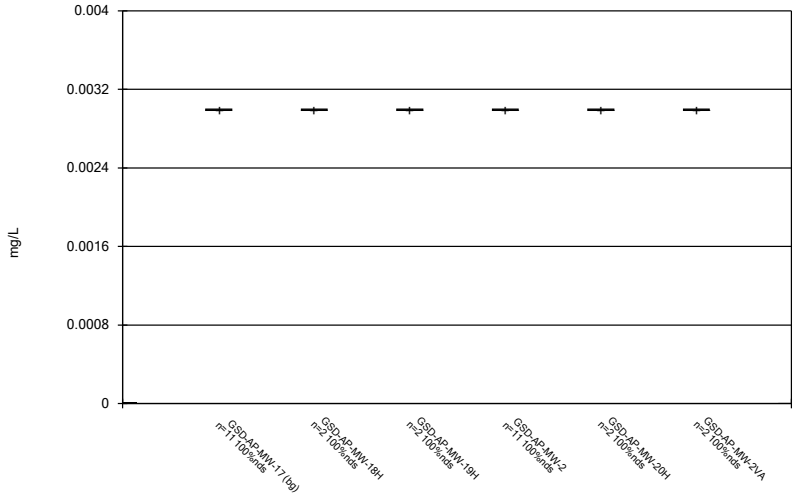


Constituent: Beryllium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

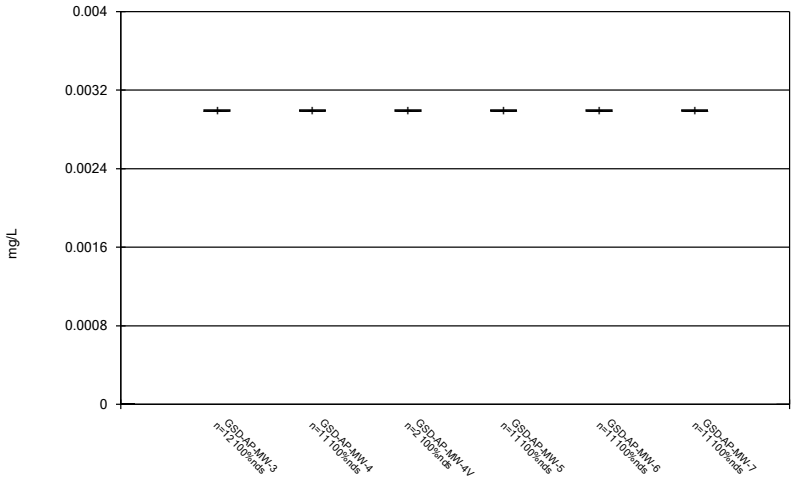


Constituent: Beryllium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

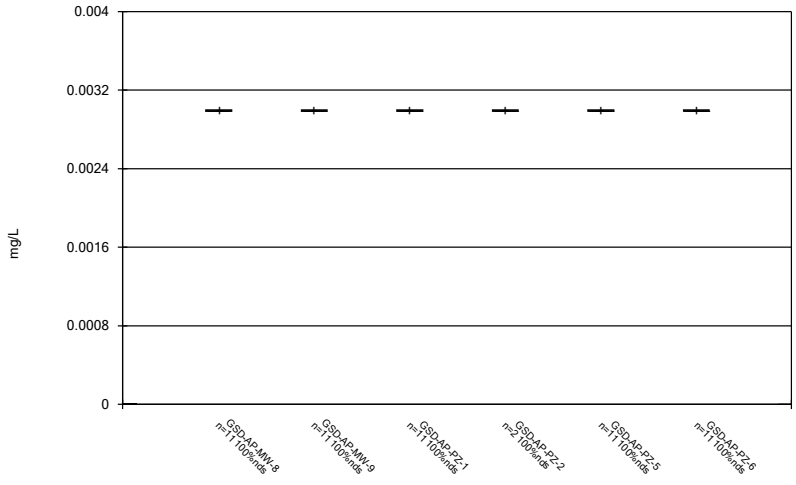


Constituent: Beryllium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

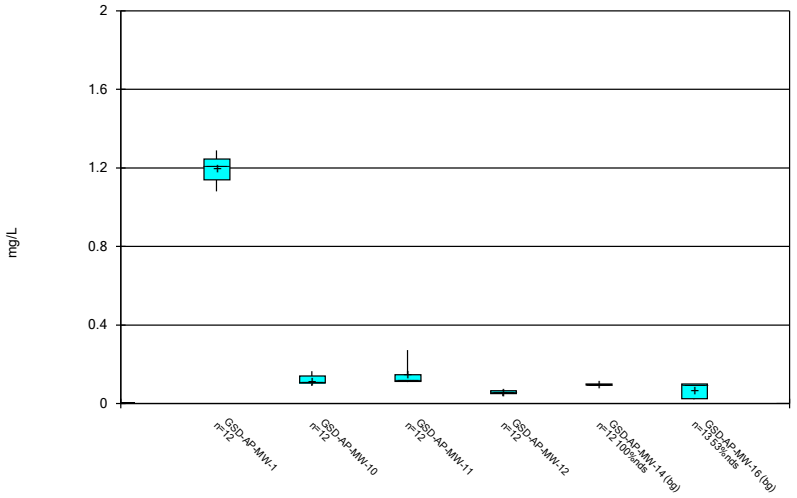
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot



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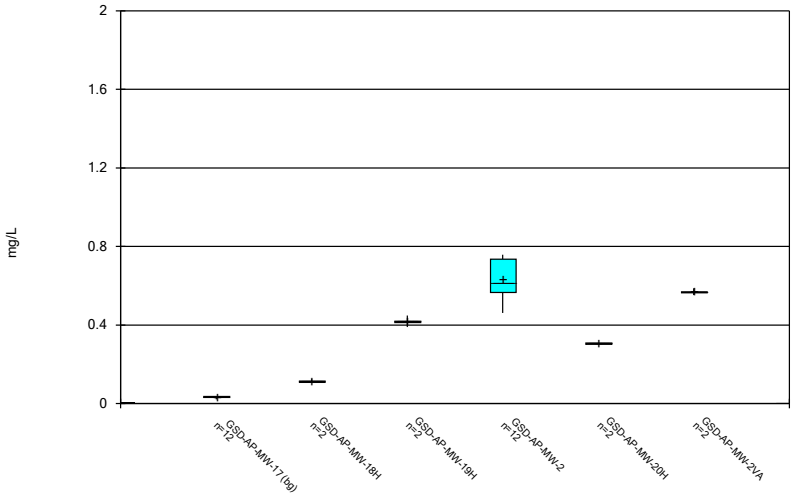
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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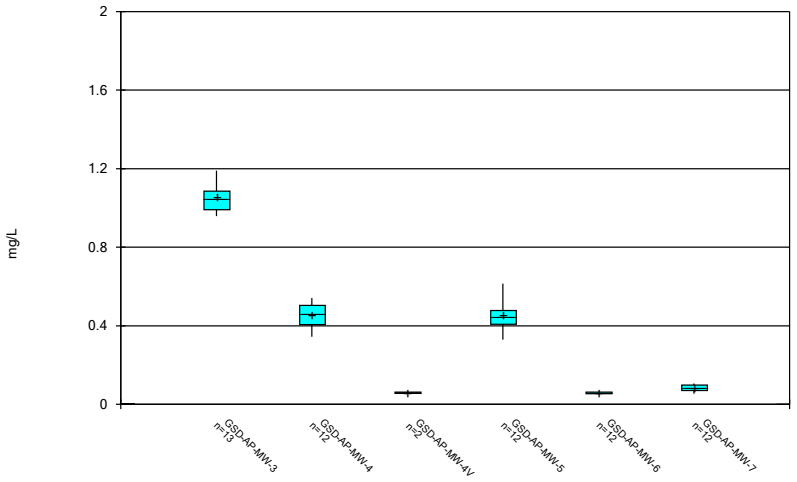
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

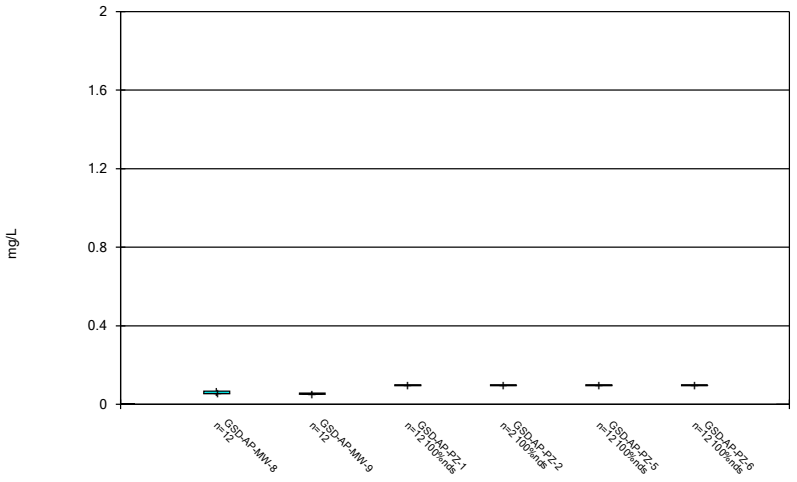


Constituent: Boron Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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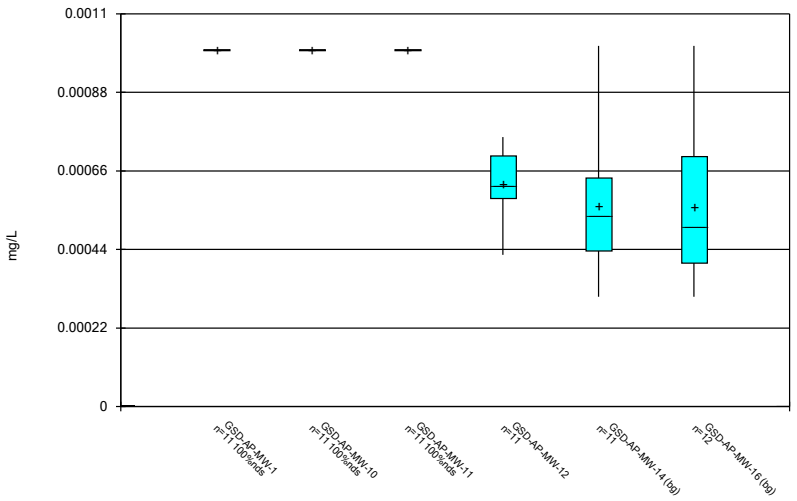
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

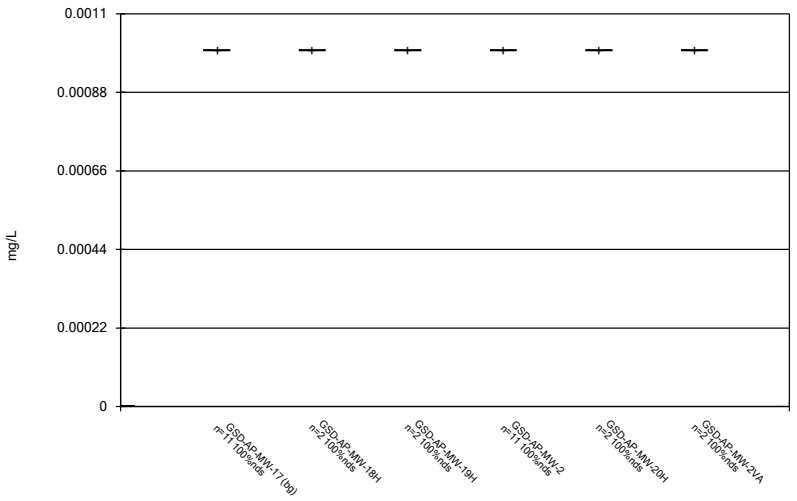


Constituent: Cadmium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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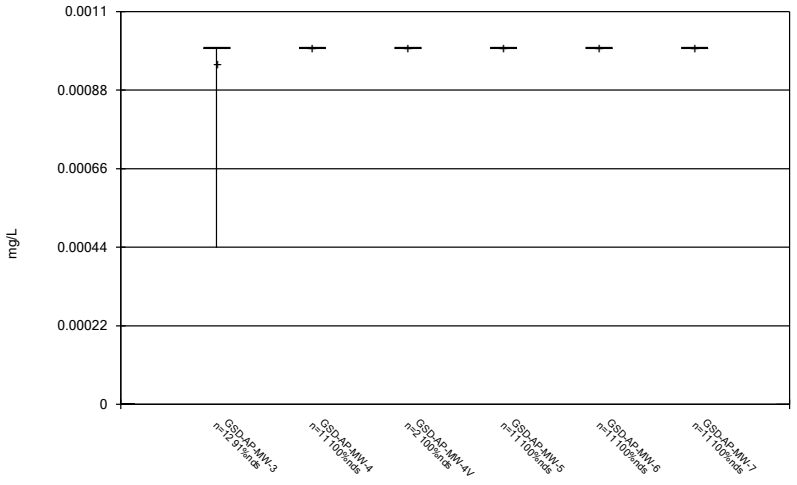
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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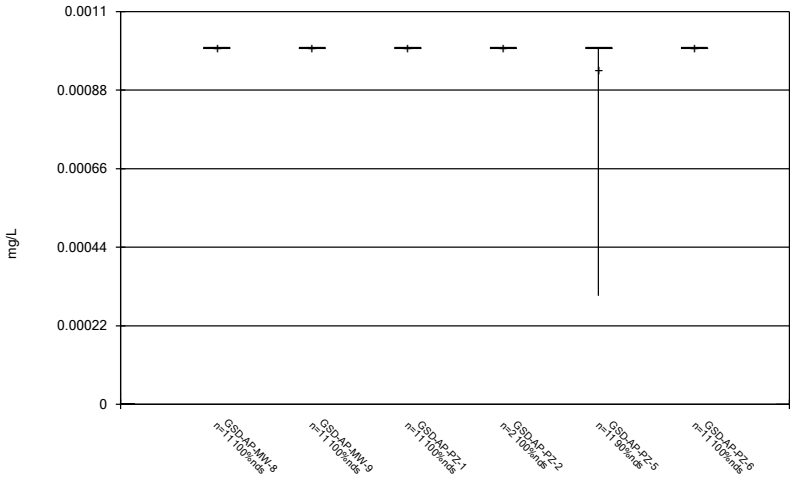
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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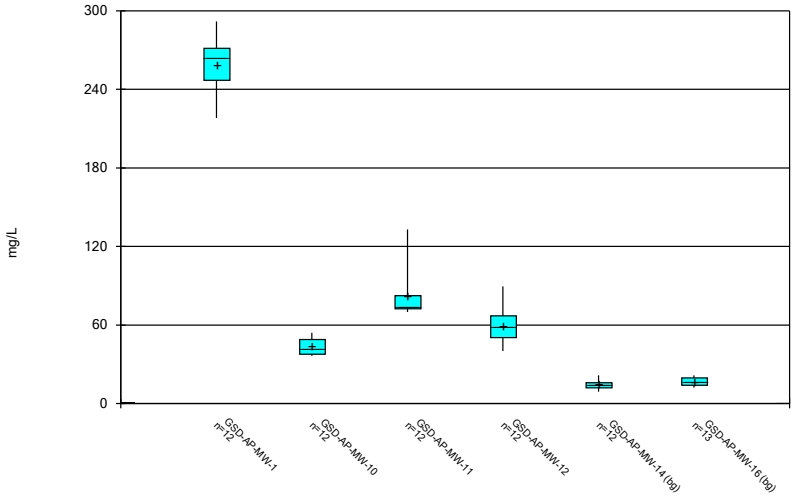
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot



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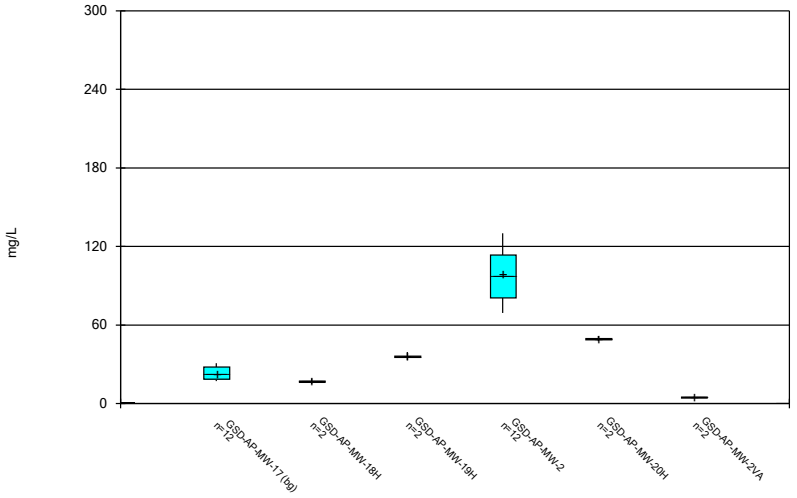
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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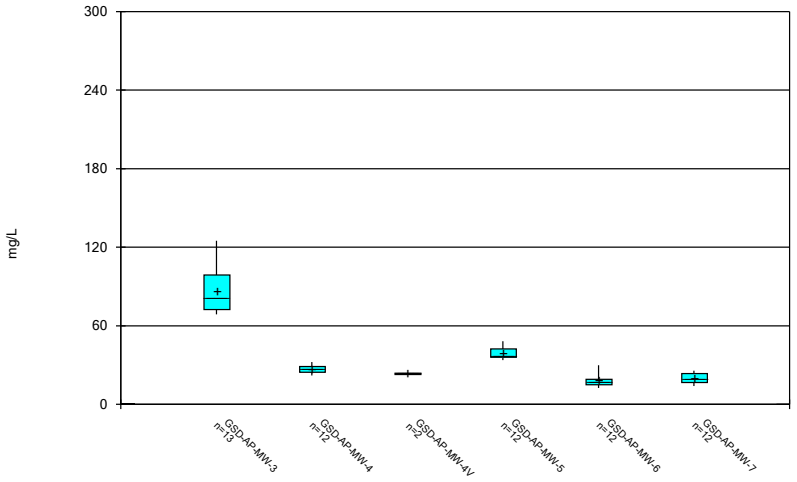
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

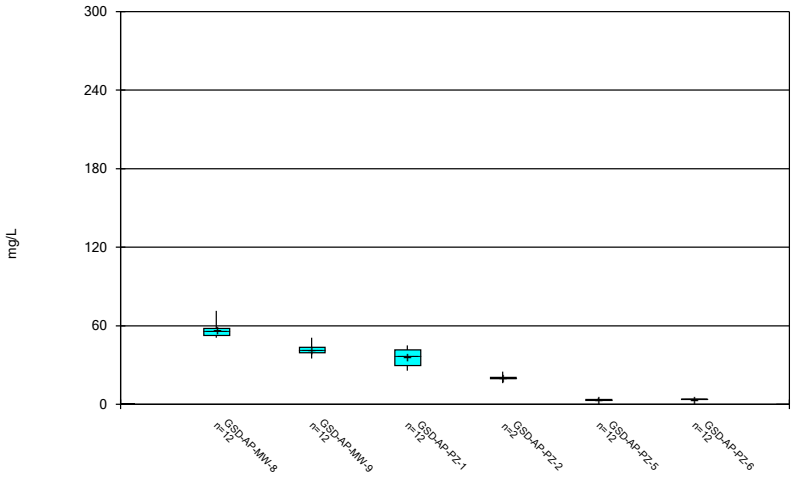


Constituent: Calcium Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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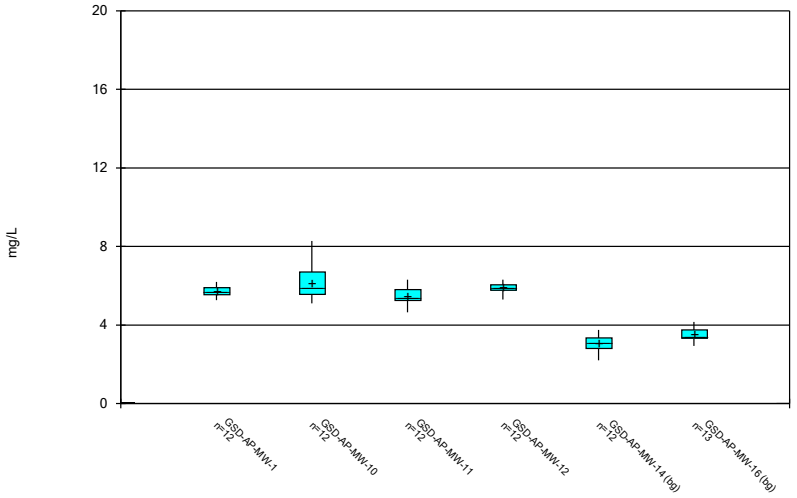
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

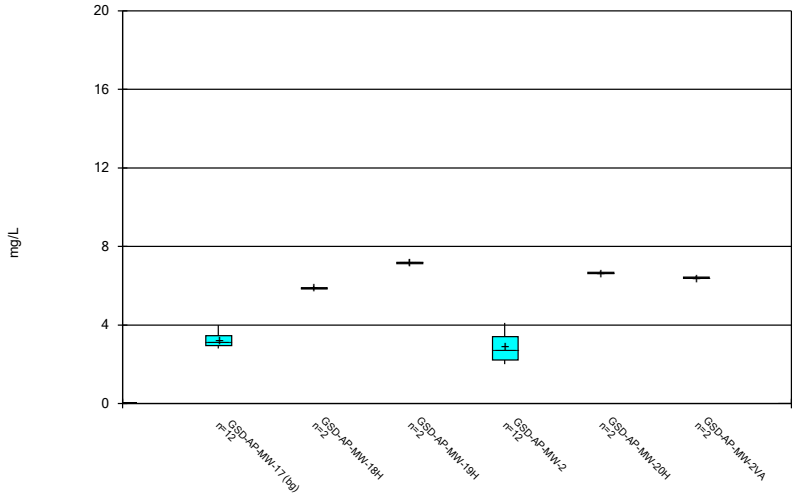


Constituent: Chloride Analysis Run 11/4/2020 3:06 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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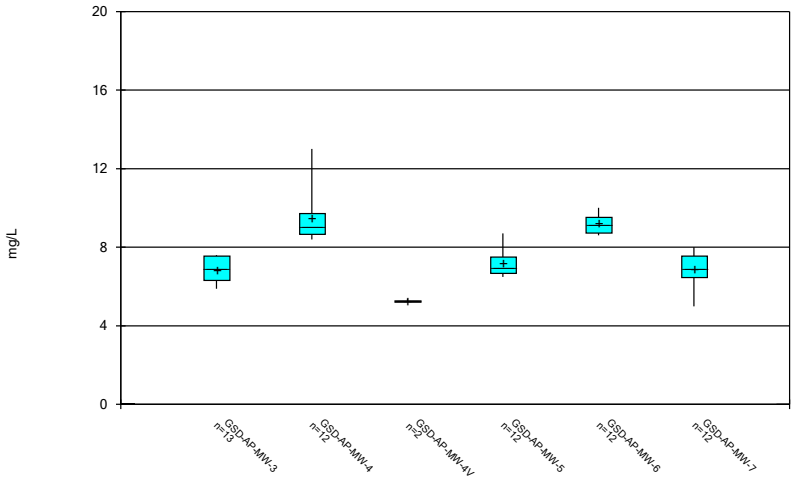
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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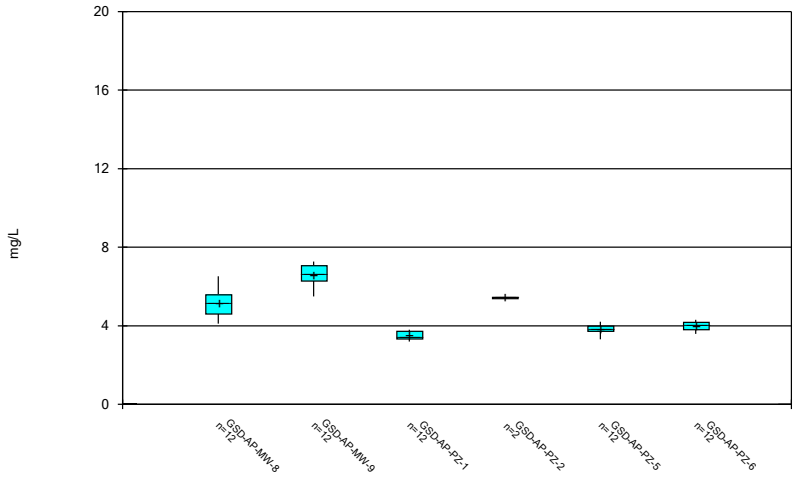
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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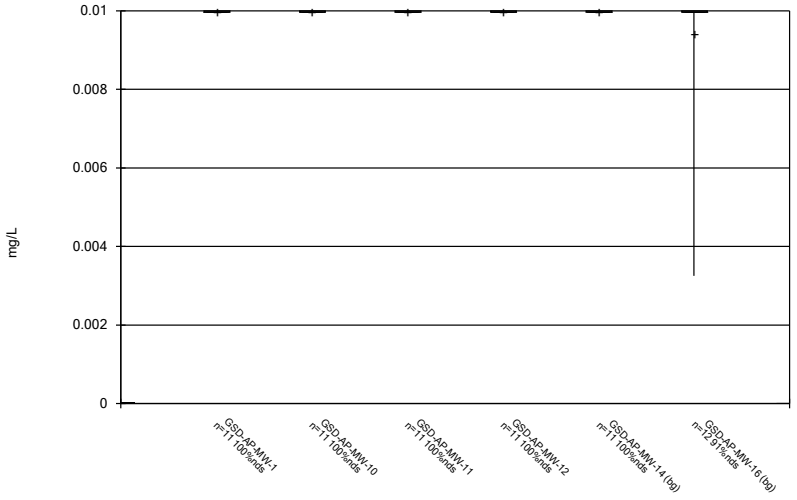
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot



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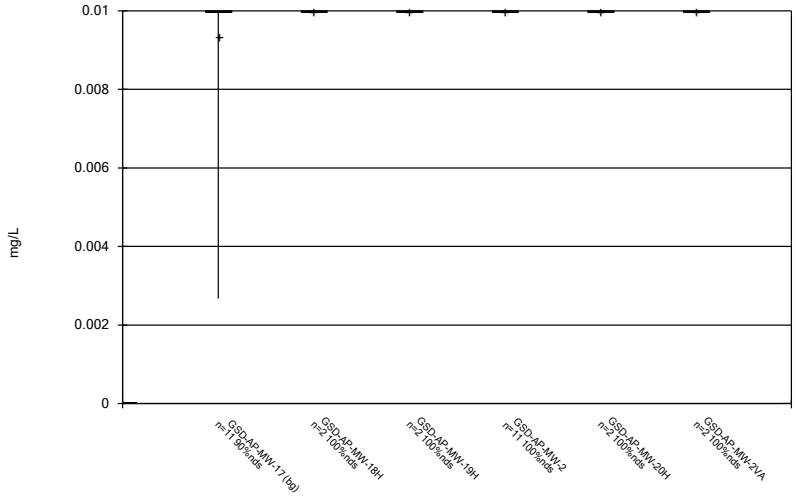
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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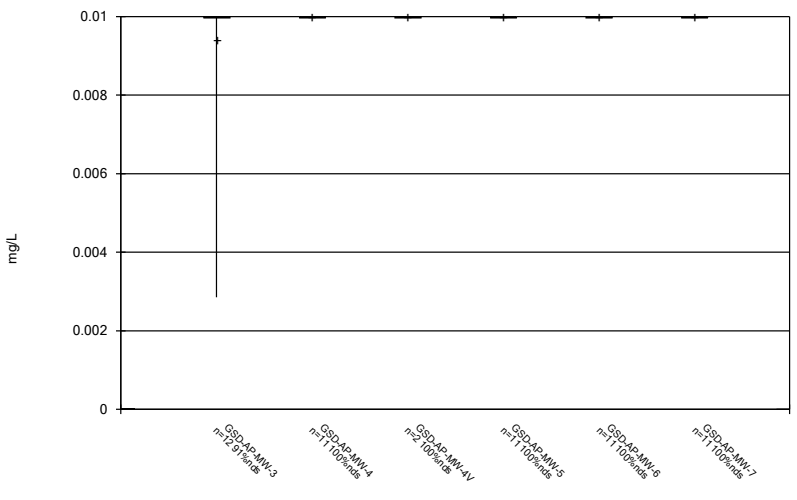
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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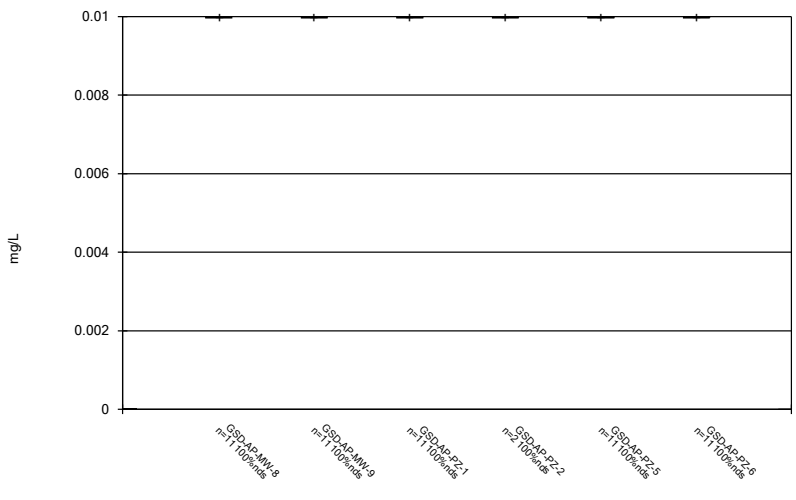
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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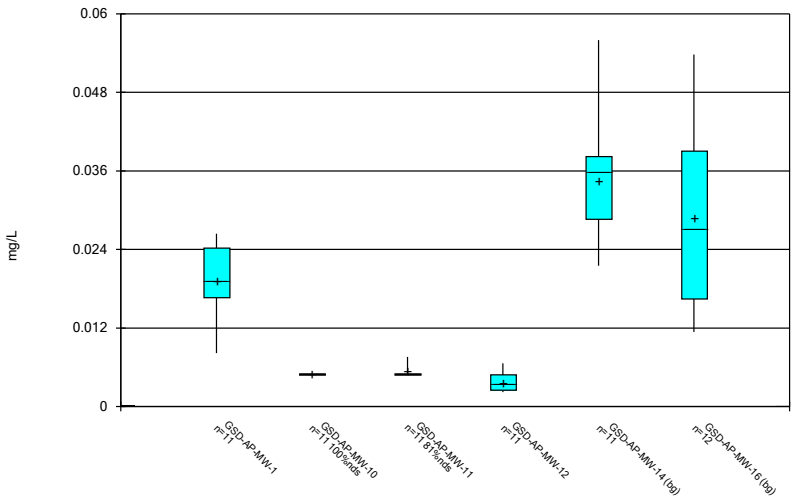
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot



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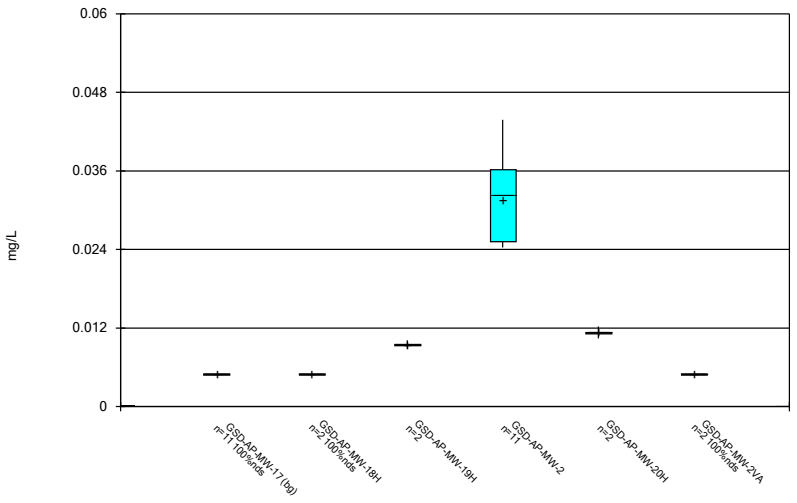
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

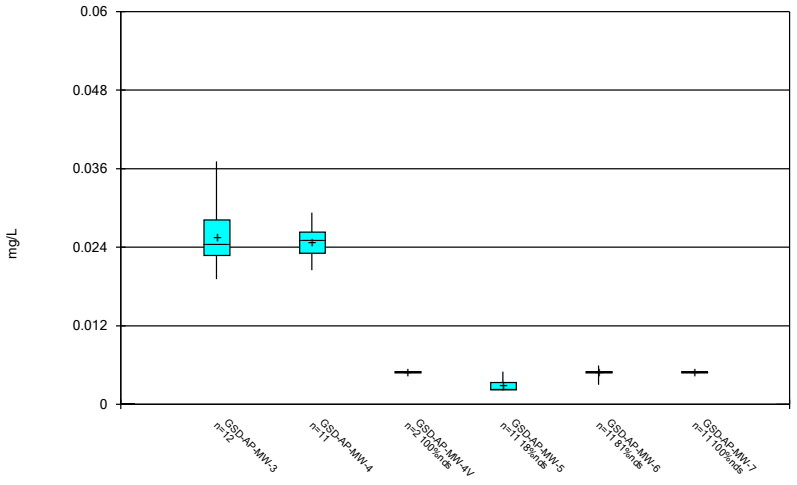


Constituent: Cobalt Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

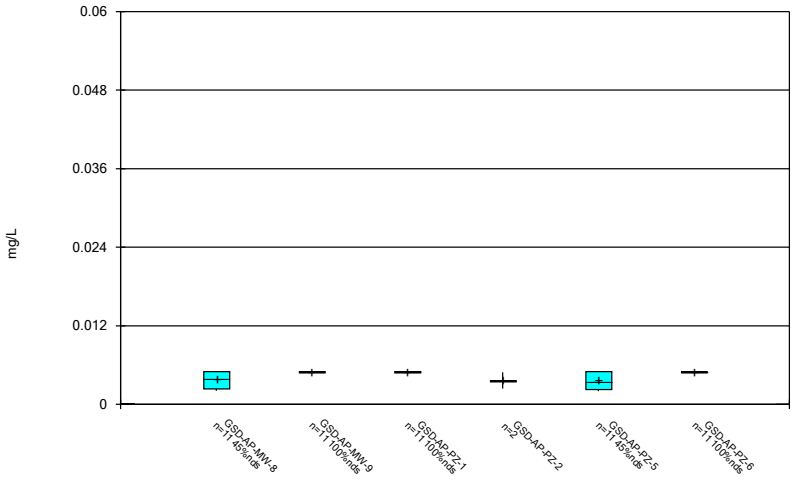


Constituent: Cobalt Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

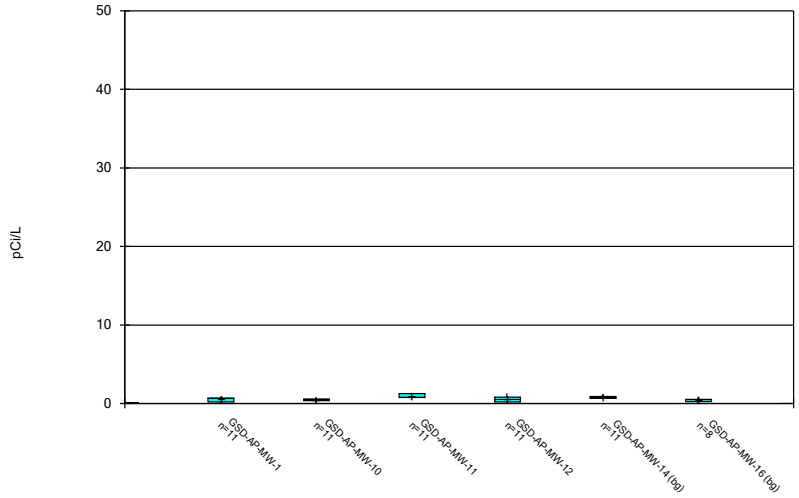
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

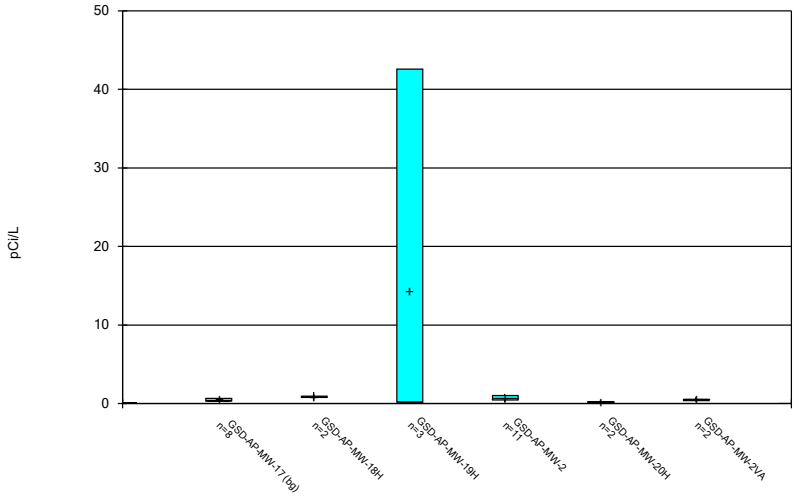
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:07 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

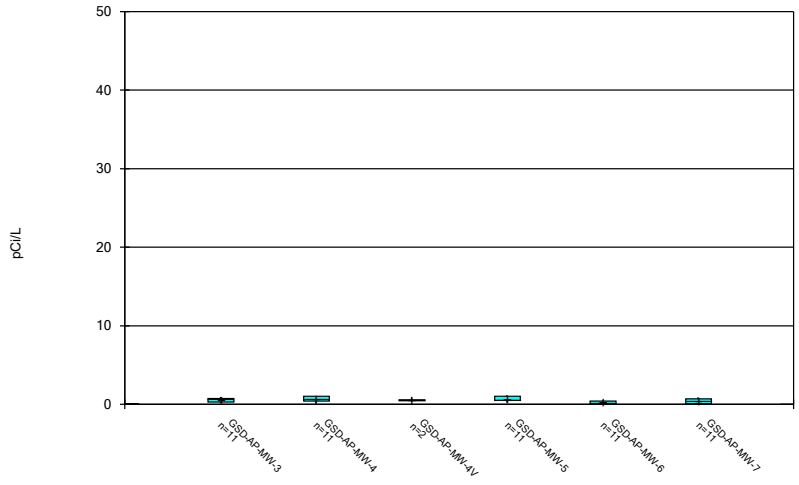
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:07 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

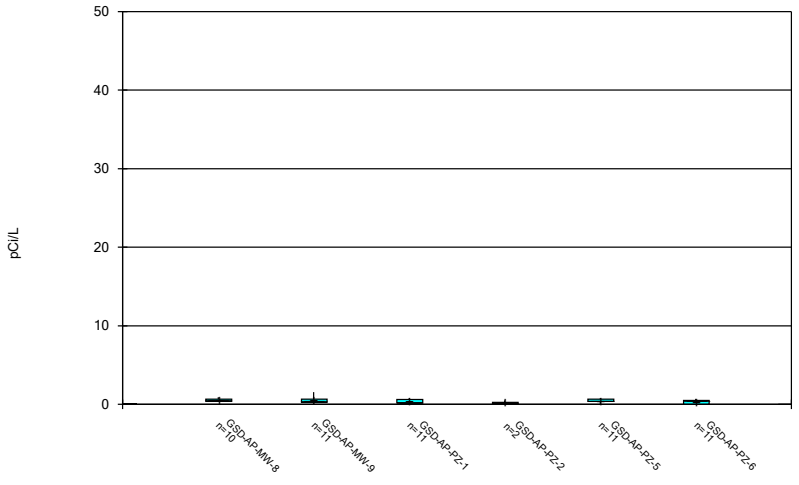
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:07 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

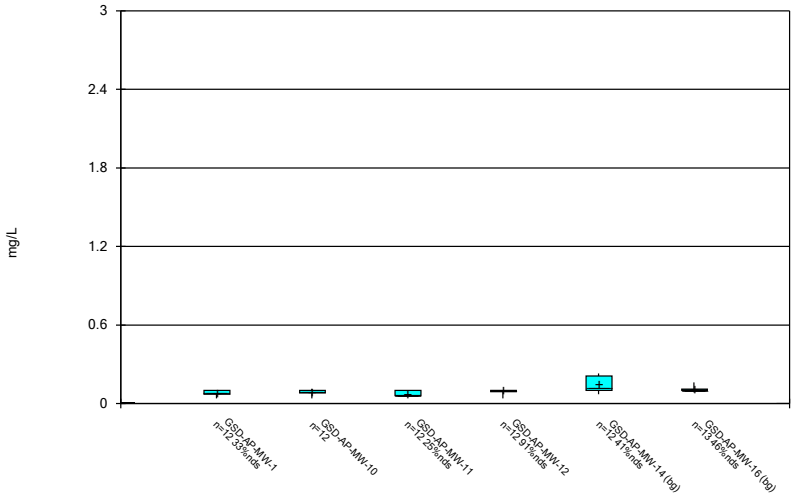
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 3:07 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

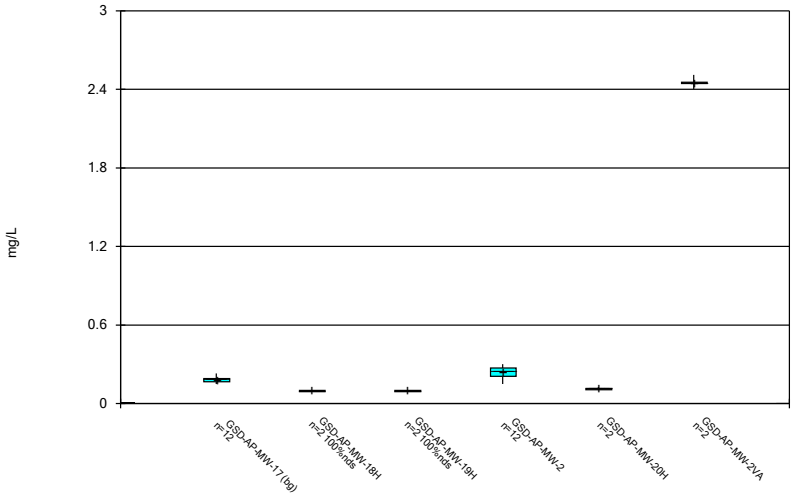


Constituent: Fluoride Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

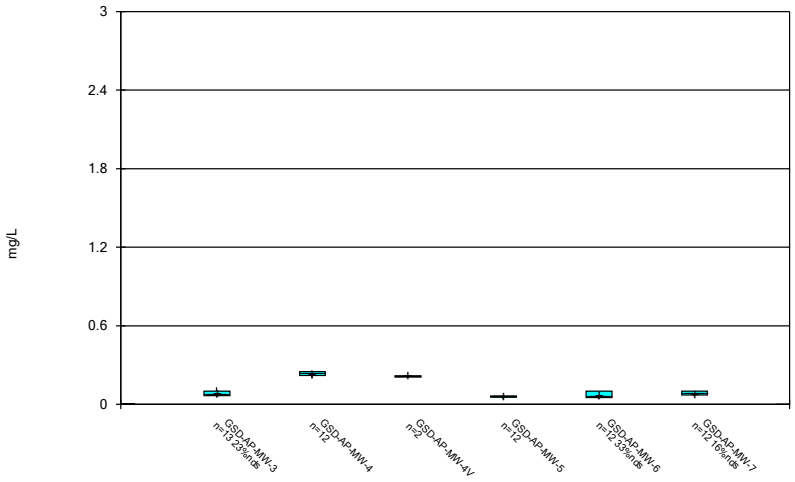


Constituent: Fluoride Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

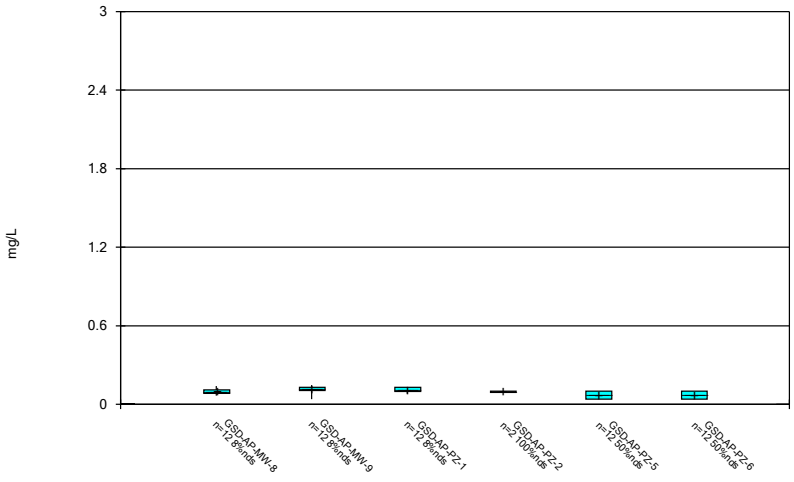


Constituent: Fluoride Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

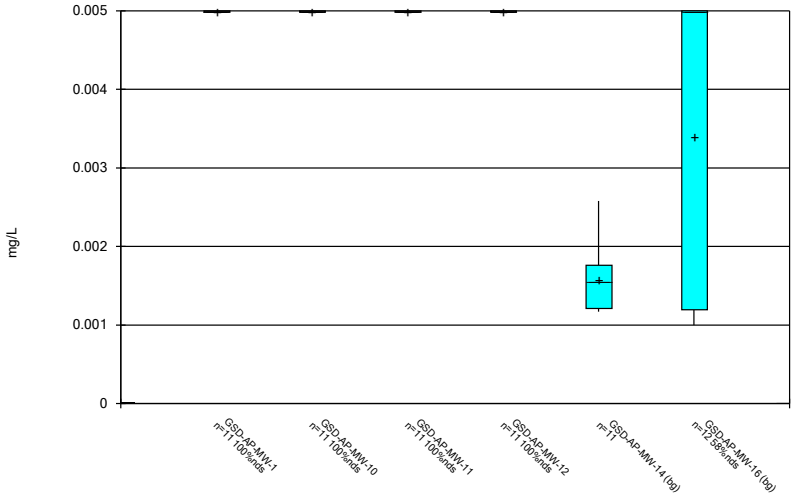
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

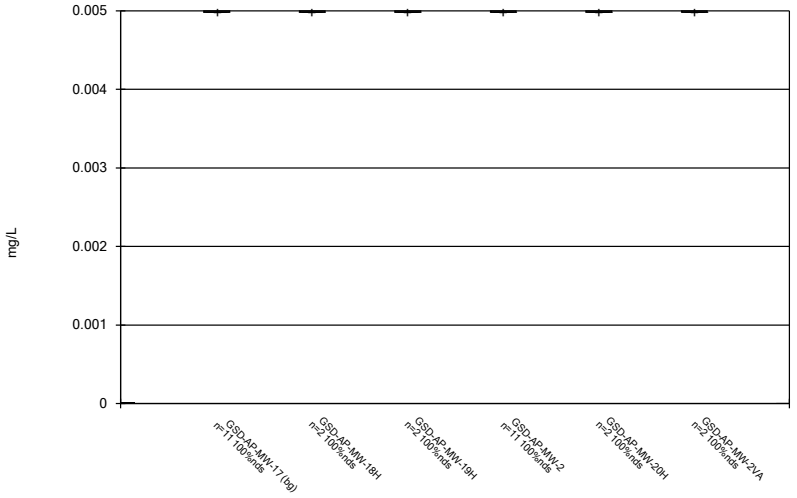


Constituent: Lead Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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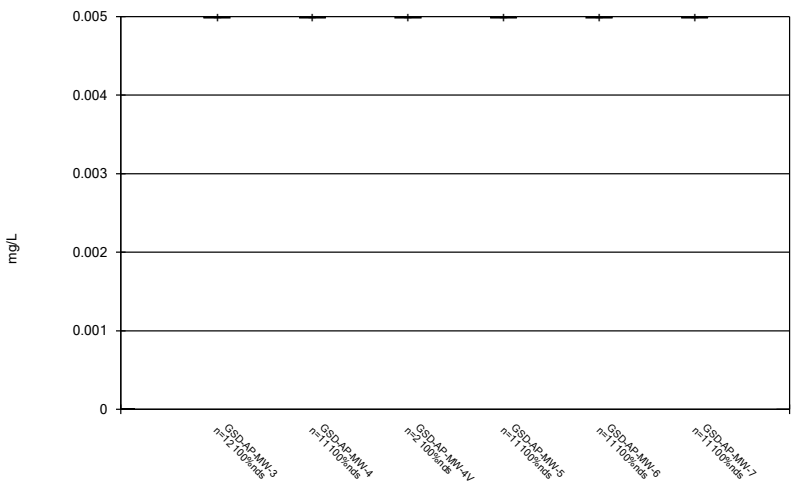
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

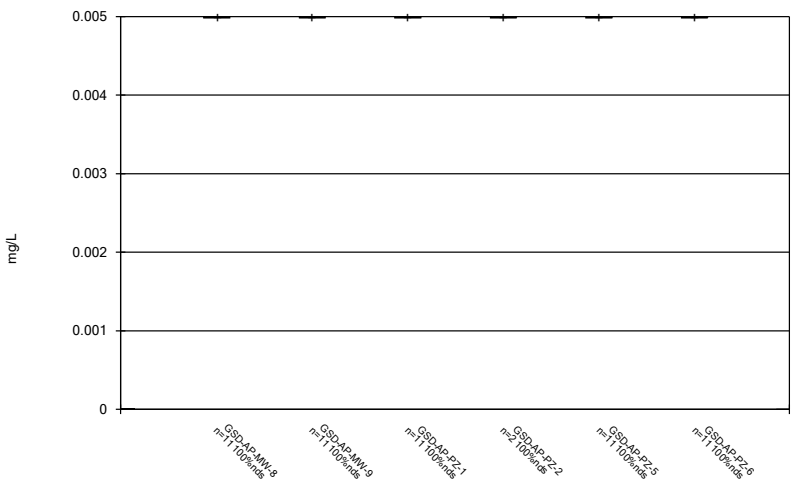


Constituent: Lead Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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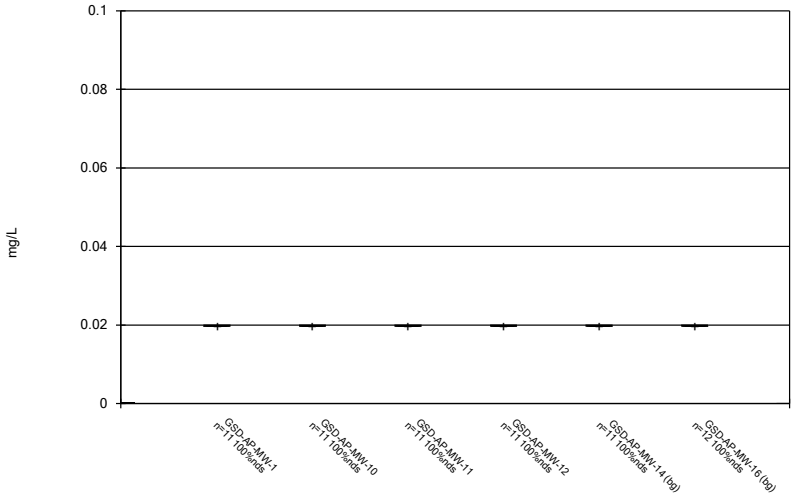
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

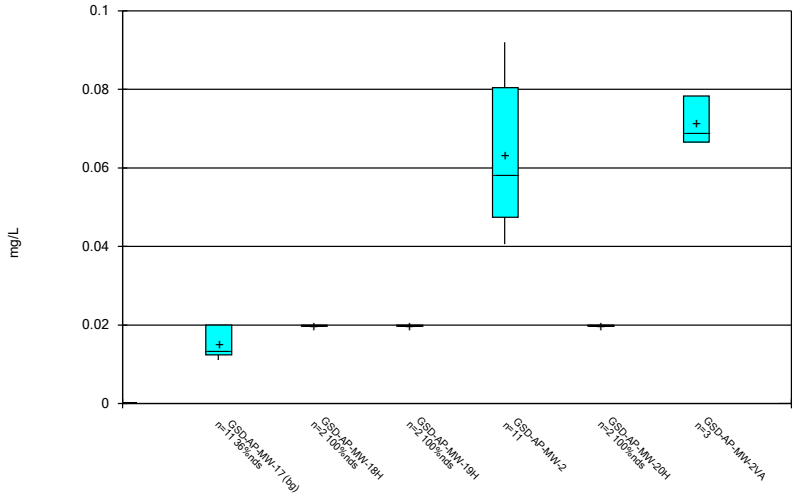


Constituent: Lithium Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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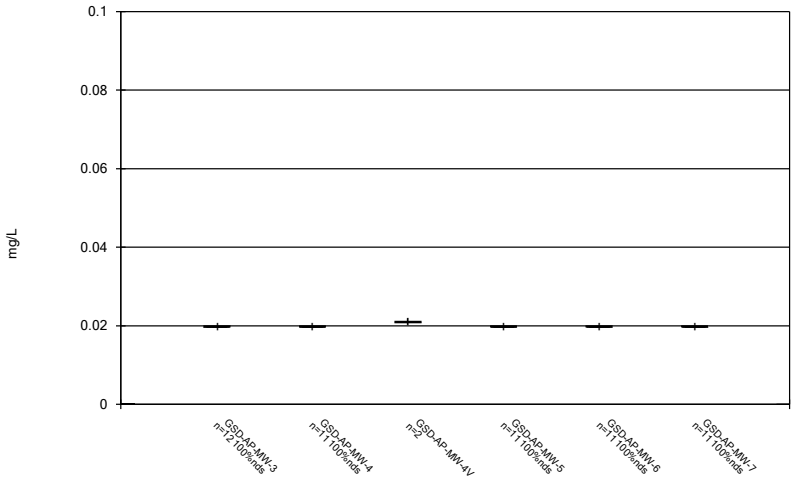
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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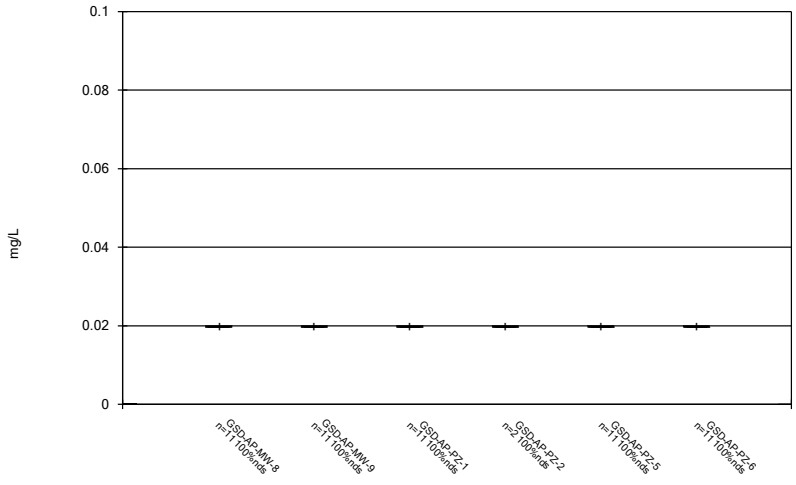
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

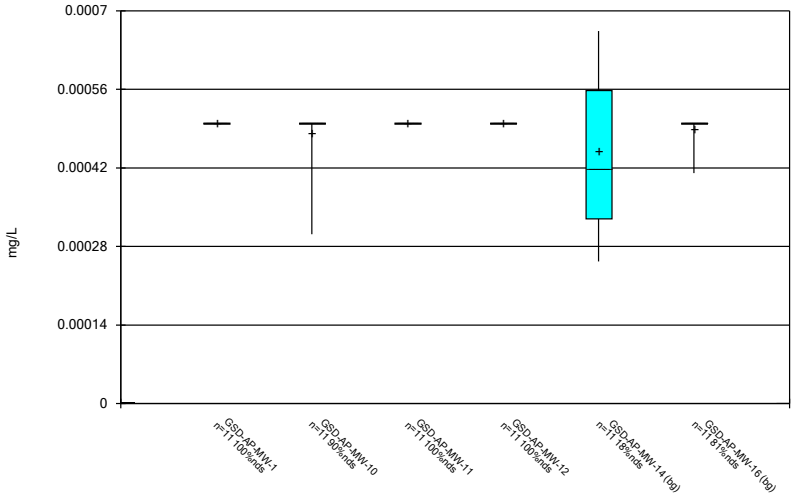
Box & Whiskers Plot



Constituent: Lithium Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

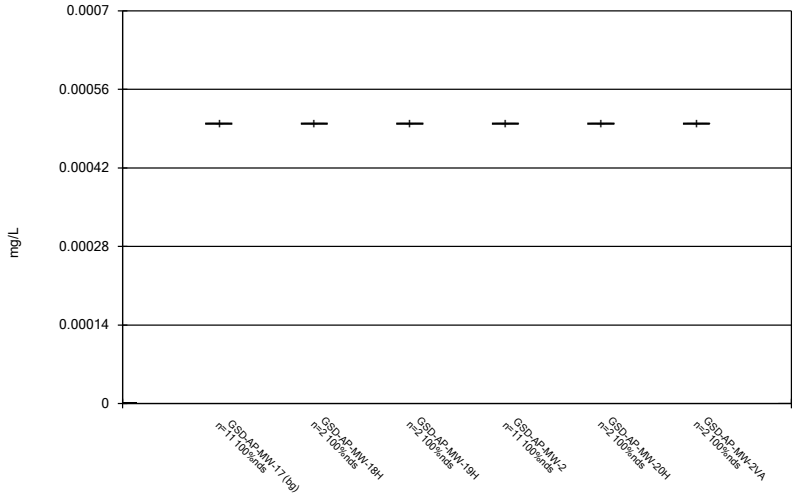


Constituent: Mercury Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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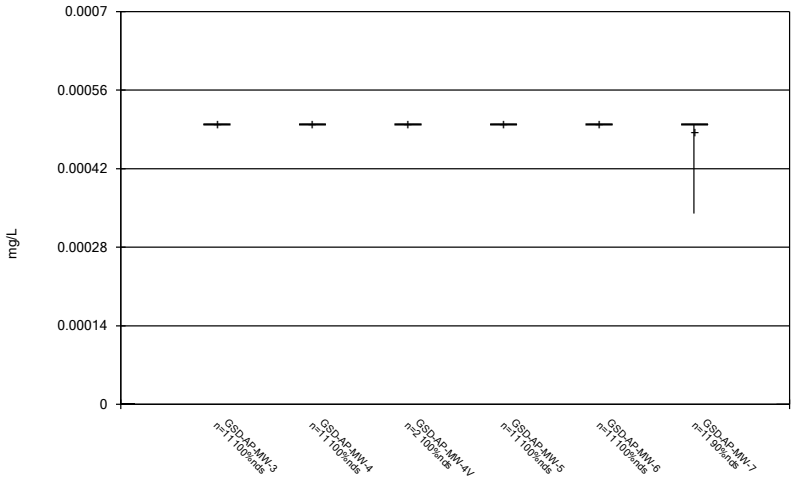
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

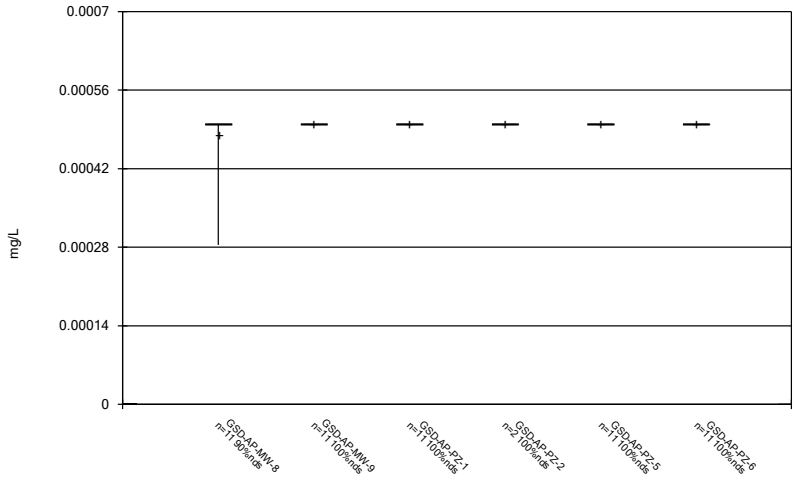


Constituent: Mercury Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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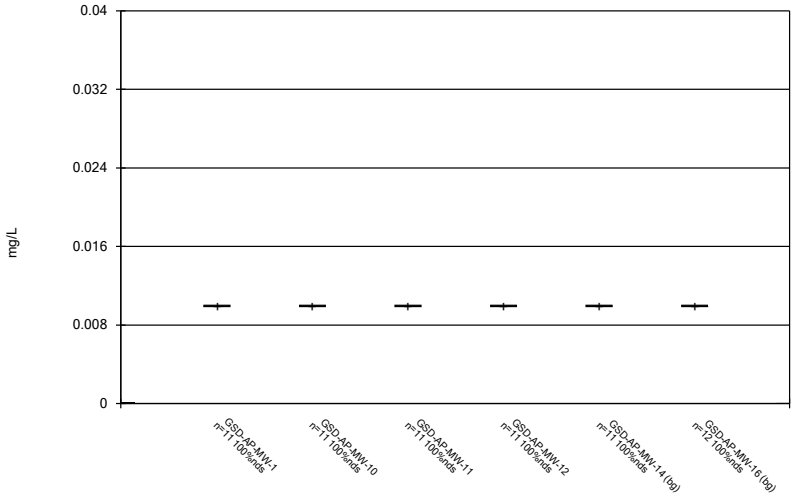
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

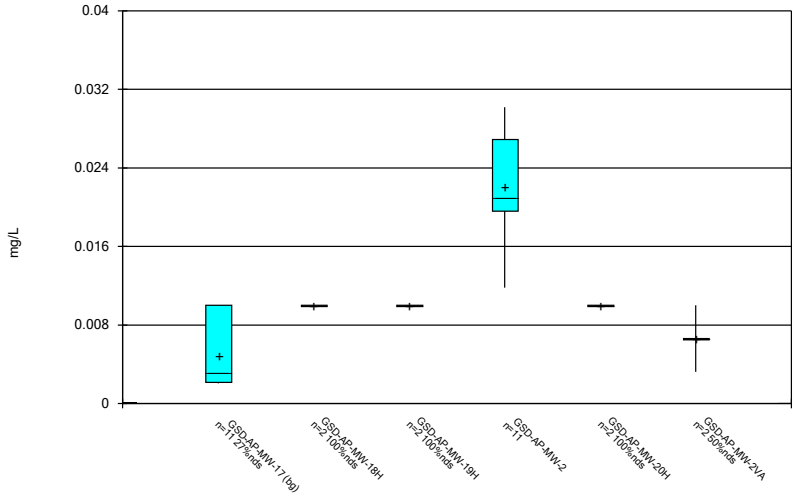


Constituent: Molybdenum Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

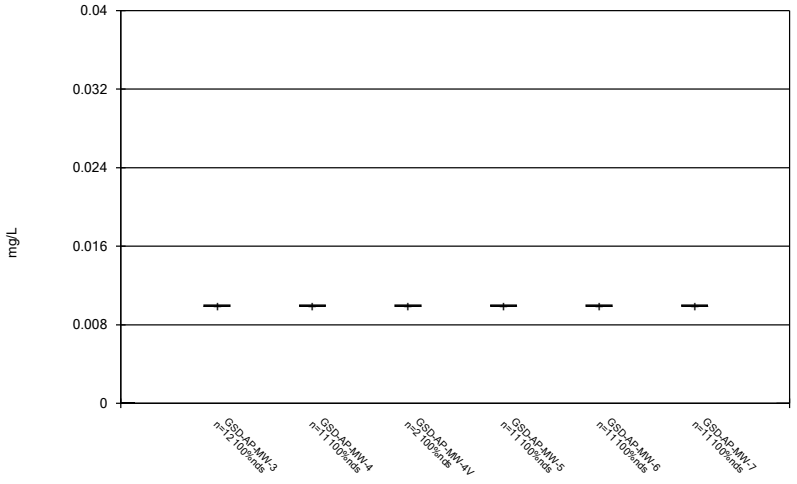


Constituent: Molybdenum Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

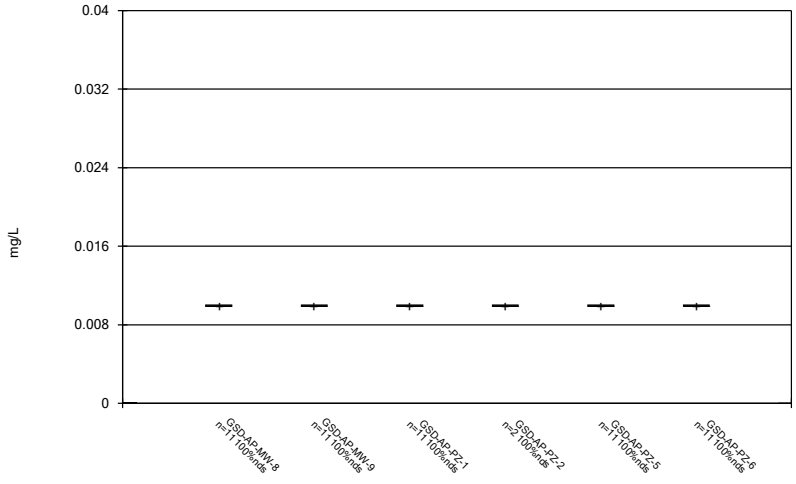


Constituent: Molybdenum Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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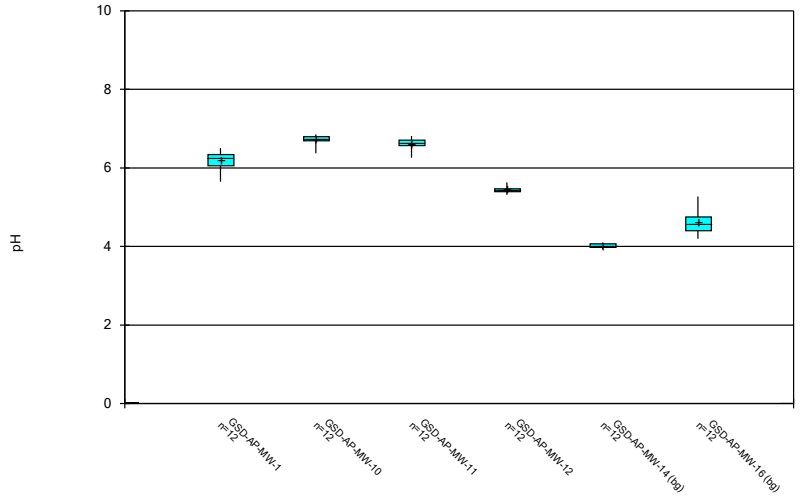
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot

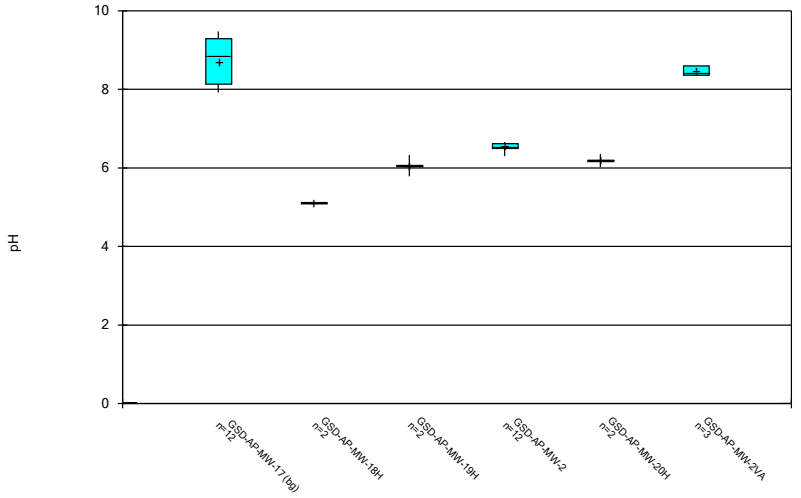


Constituent: pH Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

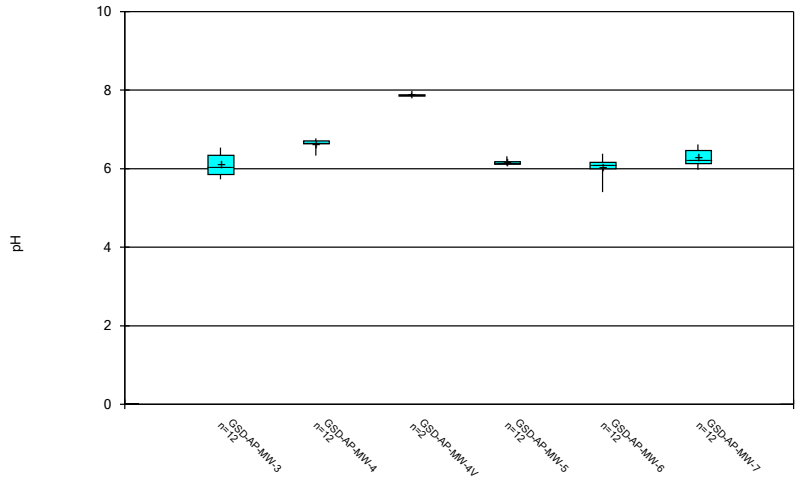


Constituent: pH Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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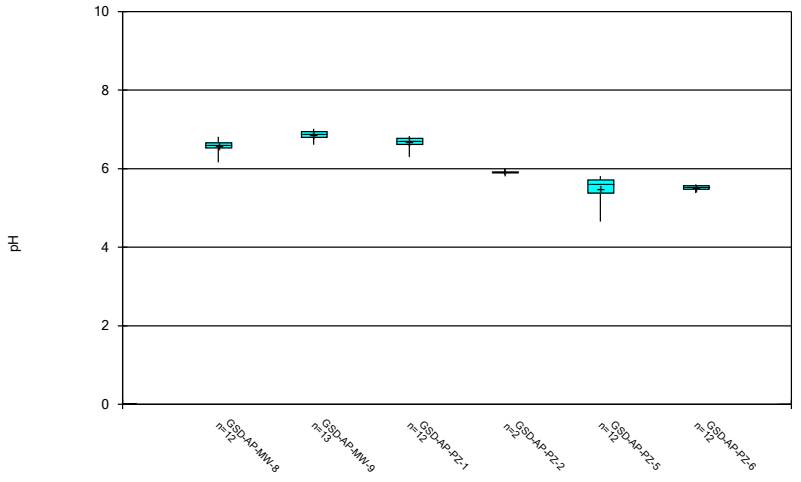
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

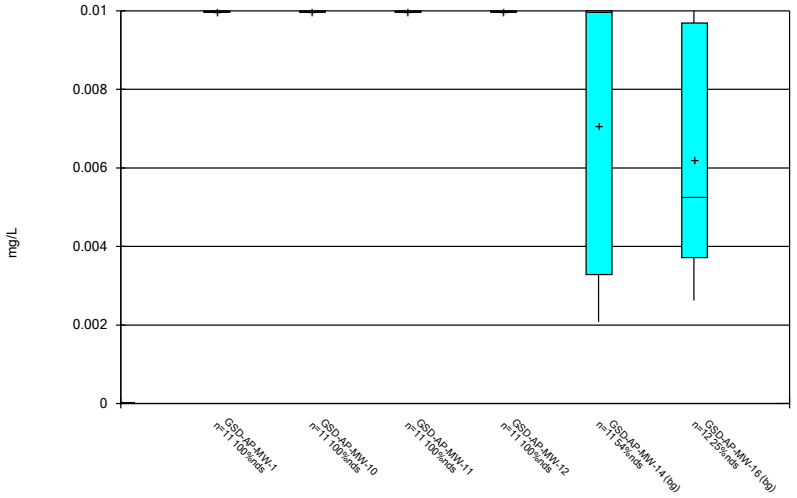
Box & Whiskers Plot



Constituent: pH Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot



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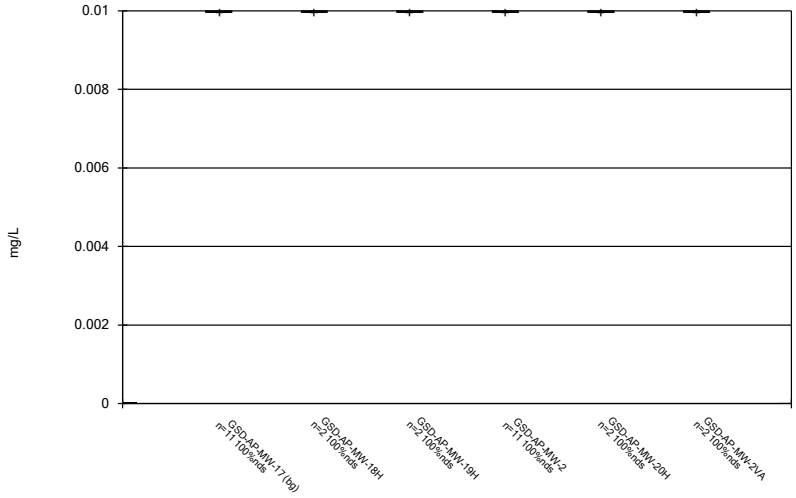
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

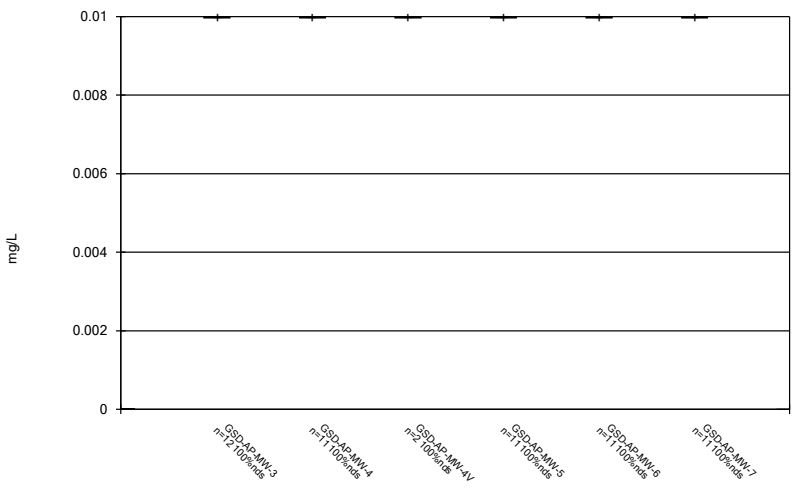


Constituent: Selenium Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

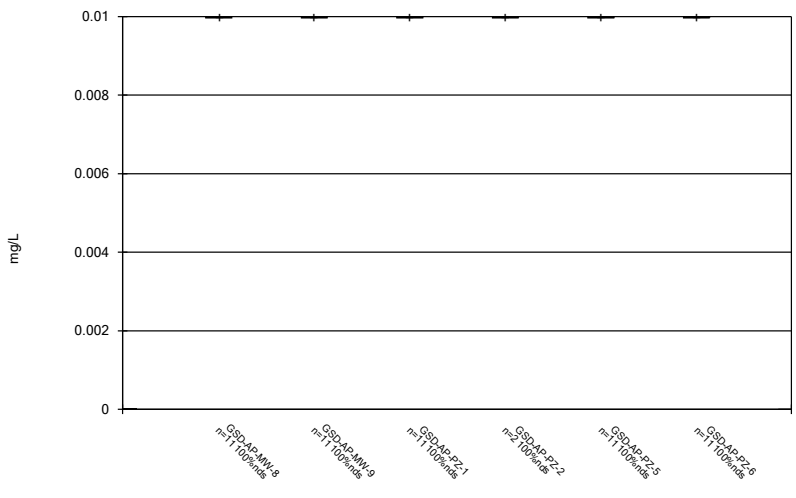


Constituent: Selenium Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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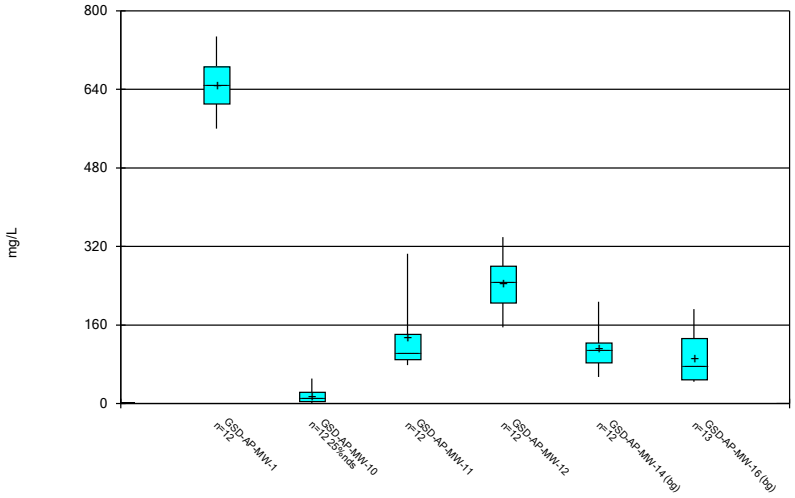
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot



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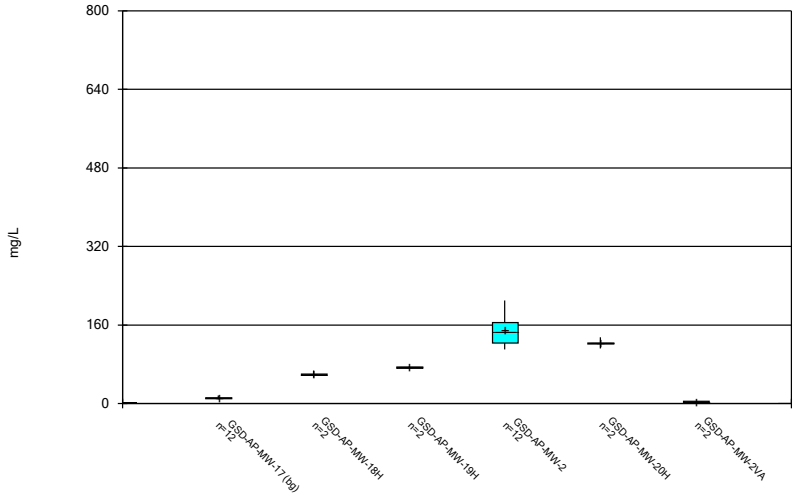
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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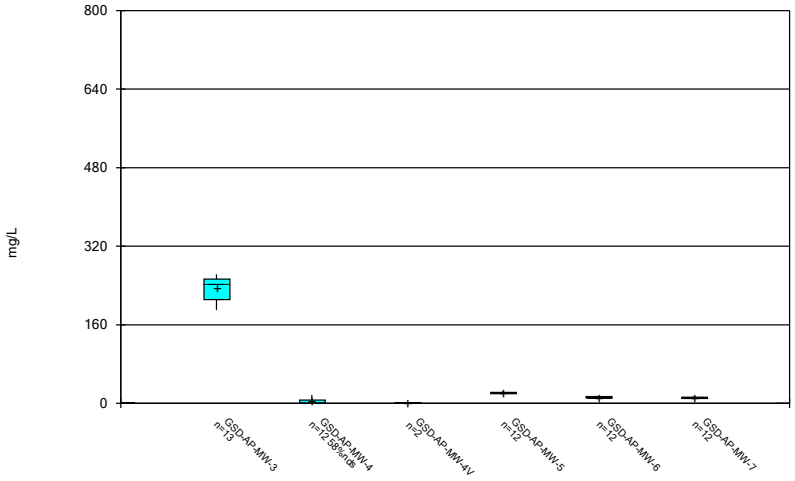
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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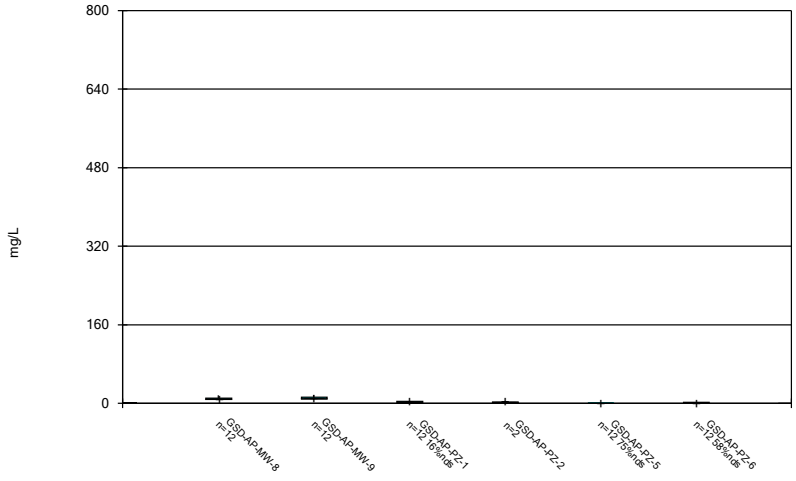
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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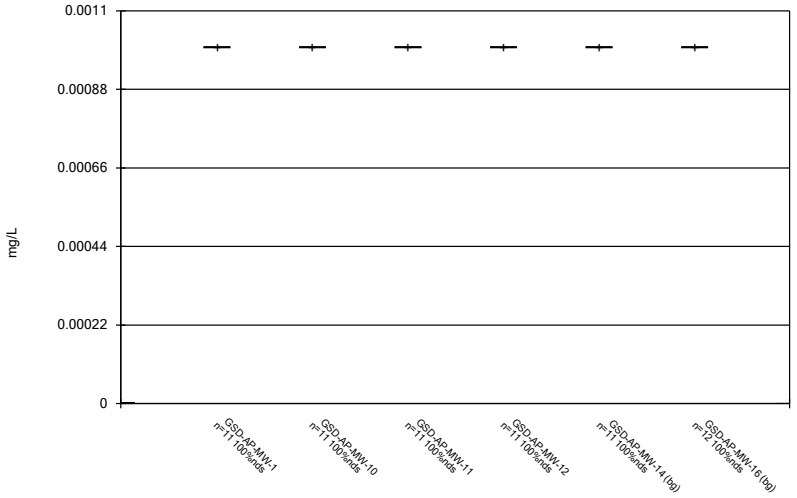
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Box & Whiskers Plot



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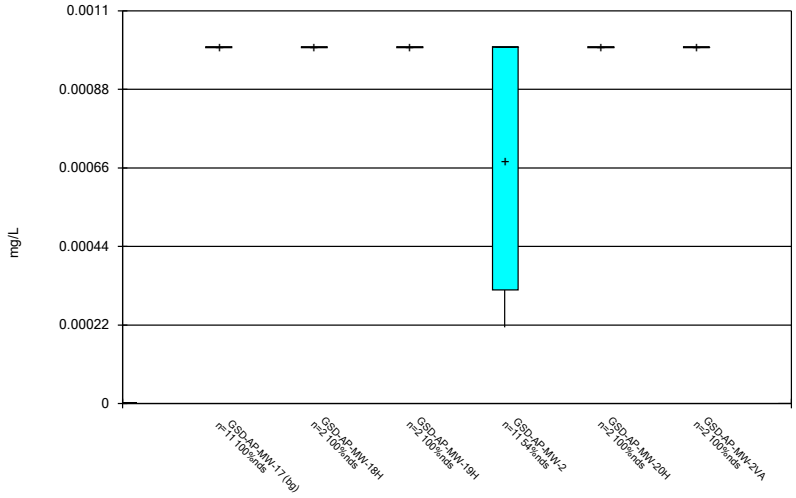
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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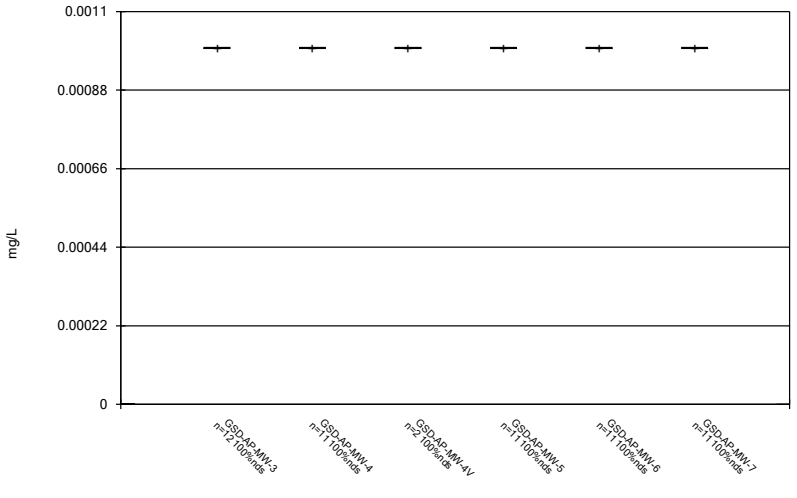
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot

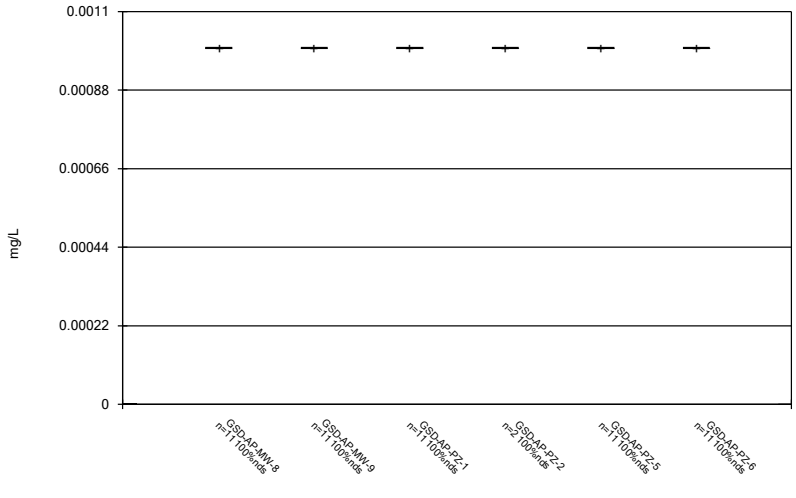


Constituent: Thallium Analysis Run 11/4/2020 3:07 PM

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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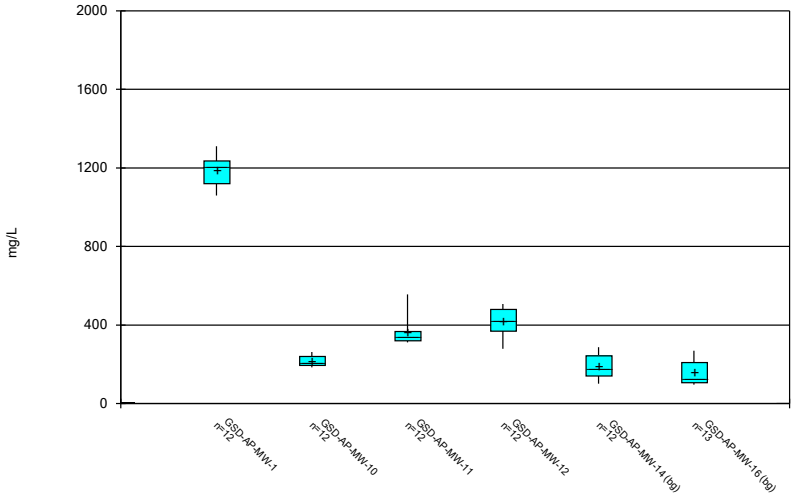
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

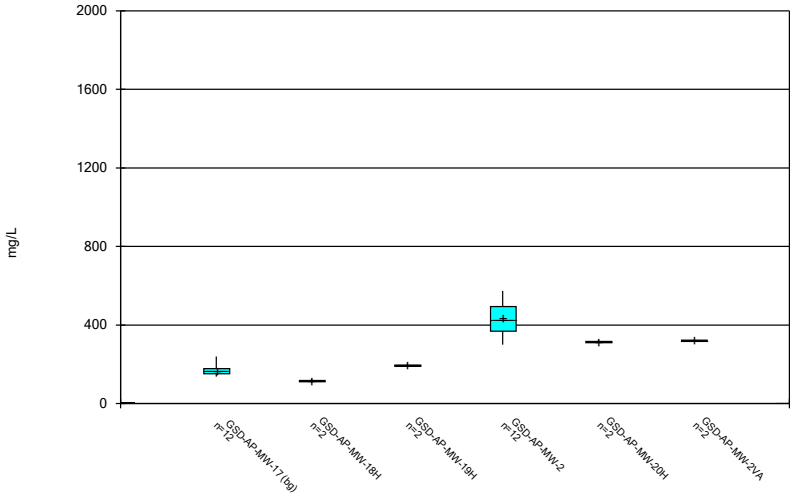
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/4/2020 3:07 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

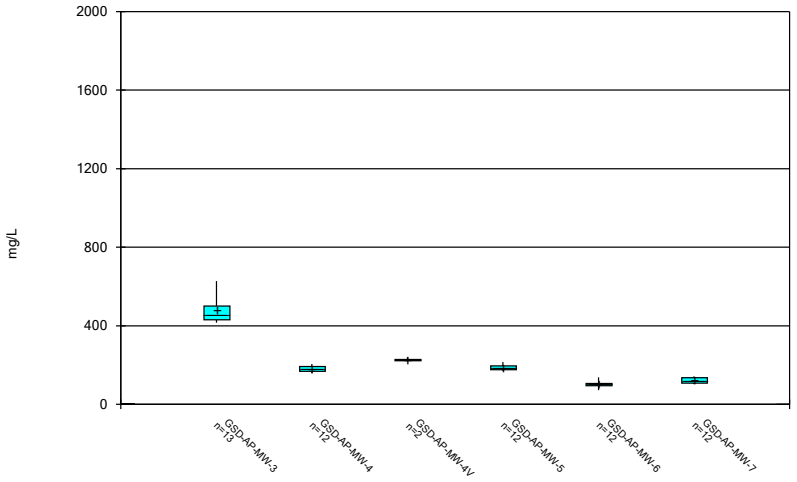
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/4/2020 3:07 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

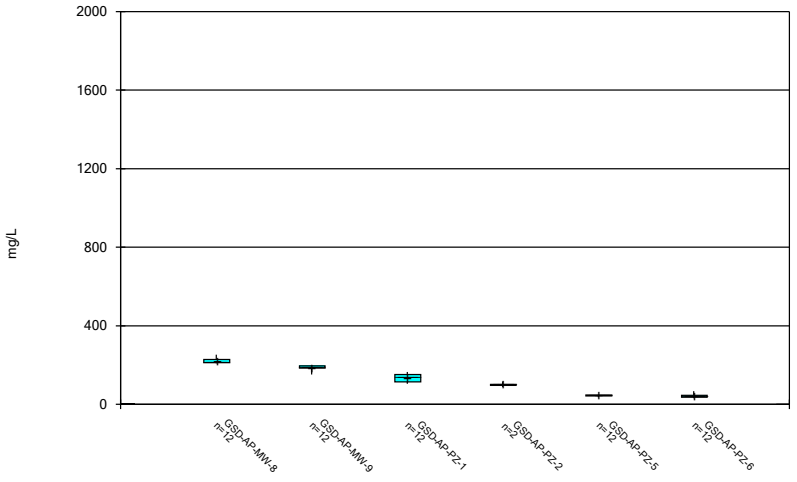
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/4/2020 3:07 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/4/2020 3:07 PM
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

FIGURE C.

Outlier Summary

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 1:46 PM

	GSD-AP-MW-8 Combined Radium 226 + 228 (pCi/L)
12/7/2017	7.45 (o)

FIGURE D.

Intrawell Prediction Limits - Significant Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/5/2020, 12:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (pH)	GSD-AP-MW-1	6.642	6.005	8/25/2020	6	Yes	8	6.324	0.1322	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-11	6.862	6.515	8/26/2020	6.38	Yes	8	6.689	0.072	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-8	6.844	6.476	8/26/2020	6.29	Yes	8	6.66	0.07635	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-9	7.005	6.825	8/26/2020	6.75	Yes	8	6.915	0.03742	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-PZ-5	5.932	5.373	8/24/2020	4.65	Yes	8	5.653	0.1161	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-PZ-6	5.665	5.425	8/24/2020	5.38	Yes	8	5.545	0.04986	0	None	No	0.0002508	Param Intra 1 of 3

Intrawell Prediction Limits - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/5/2020, 12:56 PM

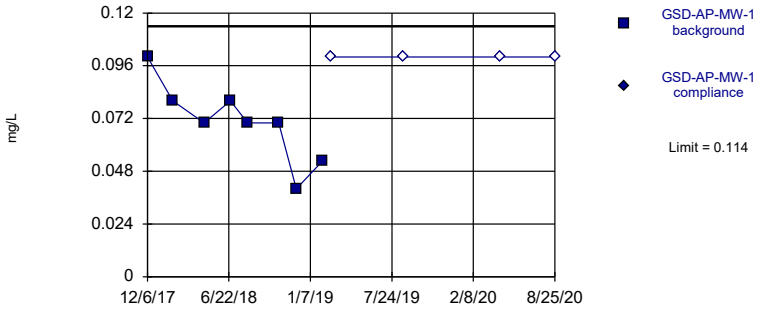
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GSD-AP-MW-1	0.114	n/a	8/25/2020	0.1ND	No	8	0.07031	0.01815	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-10	0.1319	n/a	8/26/2020	0.0997J	No	8	0.08213	0.02068	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-11	0.1029	n/a	8/26/2020	0.1ND	No	8	0.2505	0.02925	12.5	None	sqrt(x)	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-12	0.1	n/a	8/26/2020	0.1ND	No	8	n/a	n/a	87.5	n/a	n/a	0.005912	NP Intra (NDs) 1 of 3
Fluoride (mg/L)	GSD-AP-MW-14	0.3193	n/a	8/25/2020	0.1ND	No	8	0.1713	0.06151	12.5	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-16	0.16	n/a	8/25/2020	0.0863J	No	8	n/a	n/a	25	n/a	n/a	0.005912	NP Intra (normality) 1 of 3
Fluoride (mg/L)	GSD-AP-MW-17	0.2447	n/a	8/24/2020	0.163	No	8	0.1888	0.02322	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-2	0.3552	n/a	8/25/2020	0.273	No	8	0.2346	0.05008	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-3	0.146	n/a	8/26/2020	0.1ND	No	8	0.08425	0.02567	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-4	0.2778	n/a	8/26/2020	0.251	No	8	0.2311	0.01939	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-5	0.08006	n/a	8/24/2020	0.0607J	No	8	0.05689	0.009625	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-6	0.1031	n/a	8/26/2020	0.1ND	No	8	0.05726	0.01906	12.5	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-7	0.1236	n/a	8/26/2020	0.1ND	No	8	0.085	0.01604	12.5	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-8	0.1463	n/a	8/26/2020	0.0732J	No	8	0.1038	0.01768	12.5	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-MW-9	0.1569	n/a	8/26/2020	0.13	No	8	0.01259	0.004996	12.5	None	x^2	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-PZ-1	0.1609	n/a	8/24/2020	0.114	No	8	0.1142	0.01941	0	None	No	0.0005016	Param Intra 1 of 3
Fluoride (mg/L)	GSD-AP-PZ-5	0.1	n/a	8/24/2020	0.1ND	No	8	n/a	n/a	25	n/a	n/a	0.005912	NP Intra (normality) 1 of 3
Fluoride (mg/L)	GSD-AP-PZ-6	0.1	n/a	8/24/2020	0.1ND	No	8	n/a	n/a	25	n/a	n/a	0.005912	NP Intra (normality) 1 of 3
pH (pH)	**GSD-AP-MW-1**	**6.642**	**6.005**	**8/25/2020**	**6**	**Yes**	**8**	**6.324**	**0.1322**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	GSD-AP-MW-10	6.889	6.598	8/26/2020	6.73	No	8	6.744	0.06046	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	**GSD-AP-MW-11**	**6.862**	**6.515**	**8/26/2020**	**6.38**	**Yes**	**8**	**6.689**	**0.072**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	GSD-AP-MW-12	5.64	5.257	8/26/2020	5.63	No	8	5.449	0.07954	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-14	4.172	3.928	8/25/2020	4.03	No	8	4.05	0.05071	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-16	5.451	3.959	8/25/2020	4.2	No	8	4.705	0.3101	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-17	10.15	7.57	8/24/2020	8.17	No	8	8.858	0.5351	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-2	6.718	6.419	8/25/2020	6.65	No	8	6.569	0.06221	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-3	6.788	5.665	8/26/2020	5.87	No	8	6.226	0.2334	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-4	6.796	6.547	8/26/2020	6.68	No	8	6.671	0.05167	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-5	6.366	5.994	8/24/2020	6.11	No	8	6.18	0.07746	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-6	6.44	5.885	8/26/2020	5.96	No	8	6.163	0.1154	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	GSD-AP-MW-7	6.821	5.959	8/26/2020	6.11	No	8	6.39	0.1789	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	**GSD-AP-MW-8**	**6.844**	**6.476**	**8/26/2020**	**6.29**	**Yes**	**8**	**6.66**	**0.07635**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	**GSD-AP-MW-9**	**7.005**	**6.825**	**8/26/2020**	**6.75**	**Yes**	**8**	**6.915**	**0.03742**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	GSD-AP-PZ-1	6.924	6.556	8/24/2020	6.64	No	8	6.74	0.07635	0	None	No	0.0002508	Param Intra 1 of 3
pH (pH)	**GSD-AP-PZ-5**	**5.932**	**5.373**	**8/24/2020**	**4.65**	**Yes**	**8**	**5.653**	**0.1161**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**
pH (pH)	**GSD-AP-PZ-6**	**5.665**	**5.425**	**8/24/2020**	**5.38**	**Yes**	**8**	**5.545**	**0.04986**	**0**	**None**	**No**	**0.0002508**	**Param Intra 1 of 3**

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.07031, Std. Dev.=0.01815, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

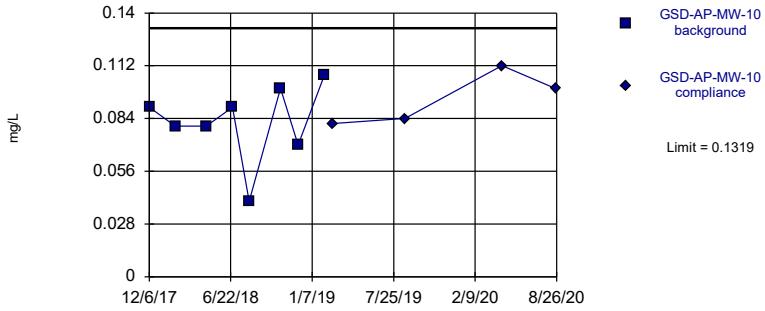
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.08213, Std. Dev.=0.02068, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9155, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

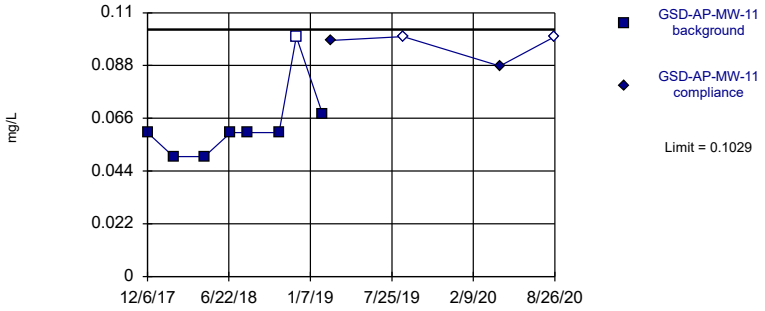
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.2505, Std. Dev.=0.02925, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7653, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

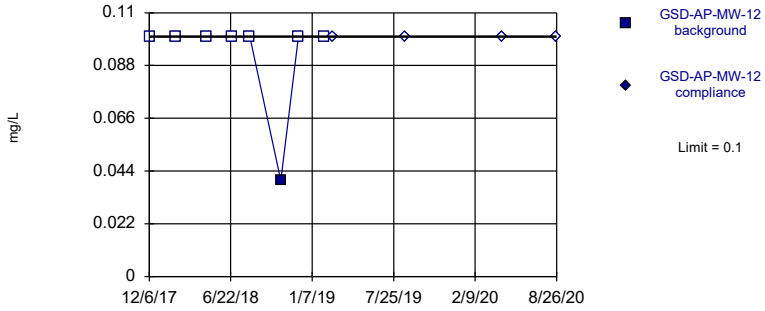
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 87.5% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

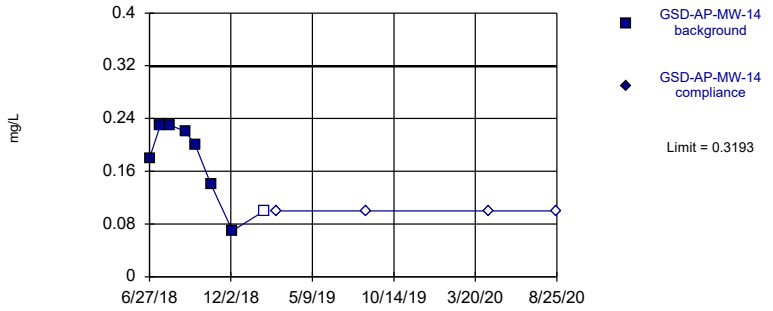
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1713, Std. Dev.=0.06151, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8841, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

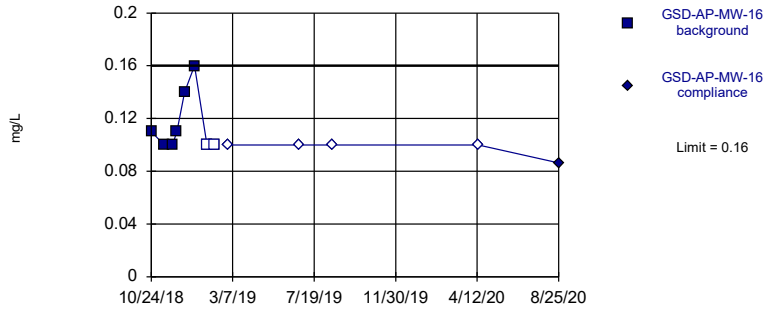
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. 25% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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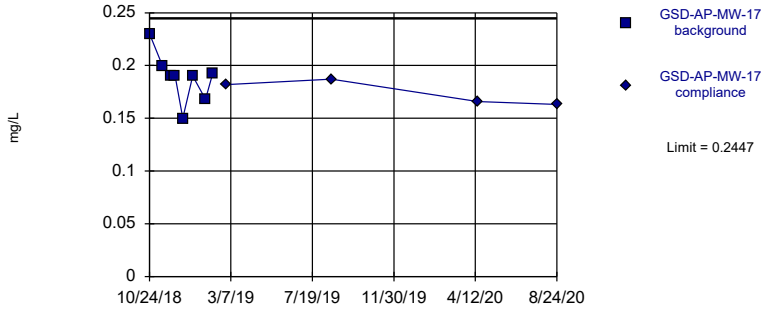
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1888, Std. Dev.=0.02322, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9185, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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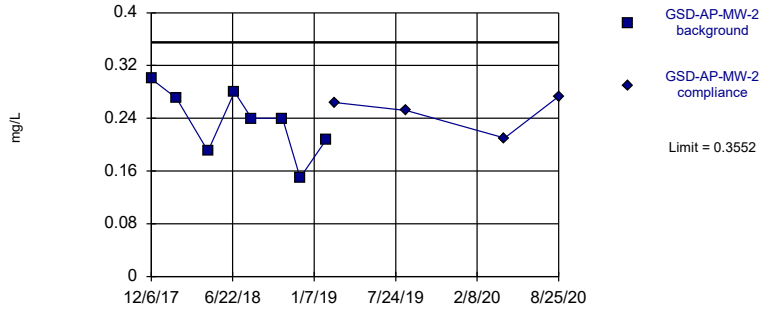
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2346, Std. Dev.=0.05008, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.966, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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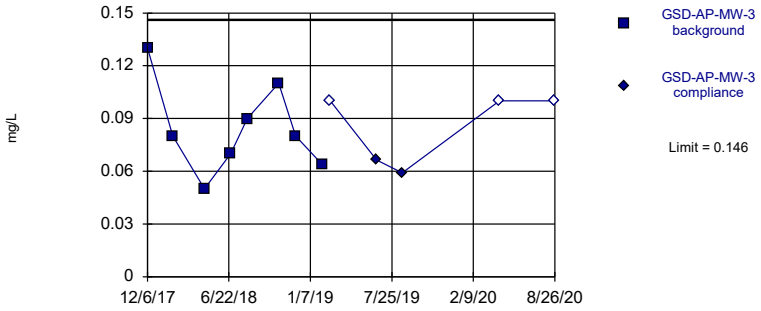
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.08425, Std. Dev.=0.02567, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9577, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

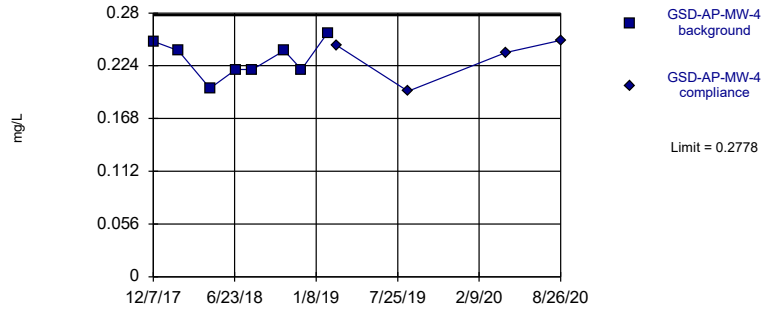
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.2311, Std. Dev.=0.01939, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9429, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

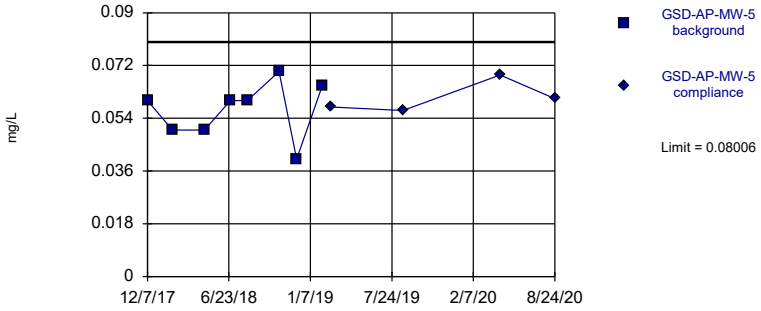
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.05689, Std. Dev.=0.009625, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.939, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

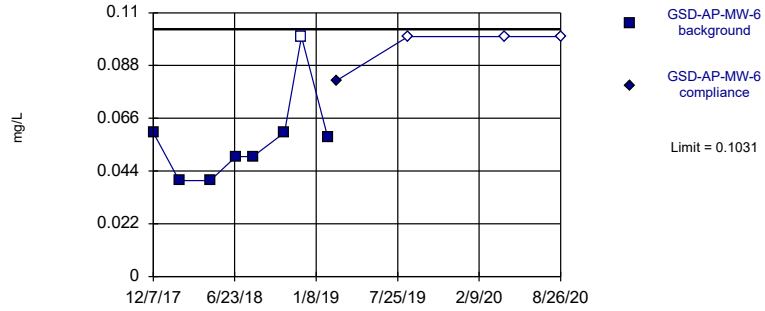
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.05726, Std. Dev.=0.01906, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7904, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

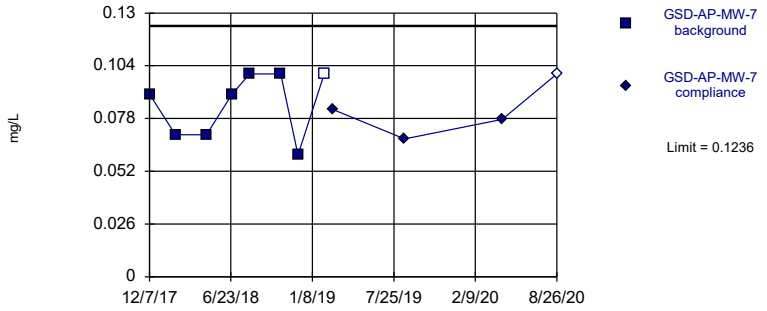
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.085, Std. Dev.=0.01604, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8419, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

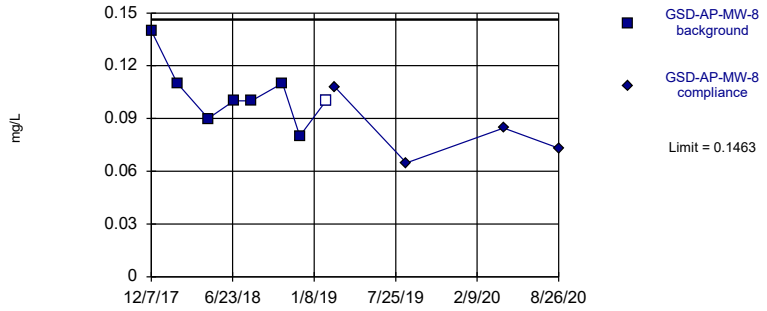
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1038, Std. Dev.=0.01768, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9005, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

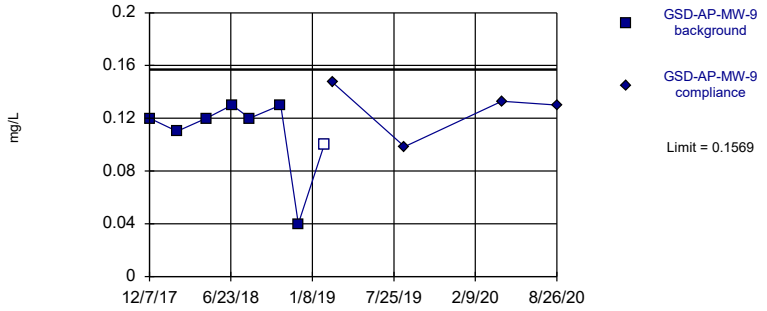
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=0.01259, Std. Dev.=0.004996, n=8, 12.5% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8029, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

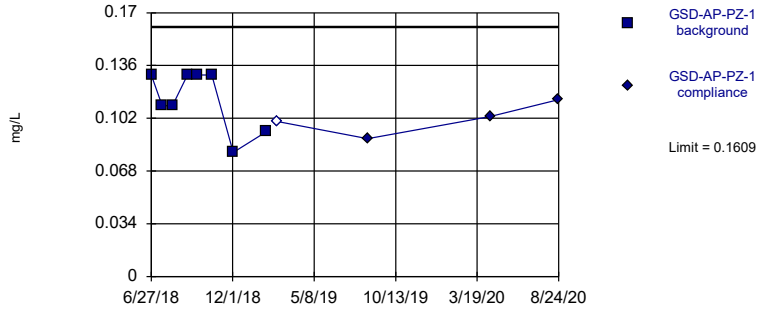
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1142, Std. Dev.=0.01941, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8184, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

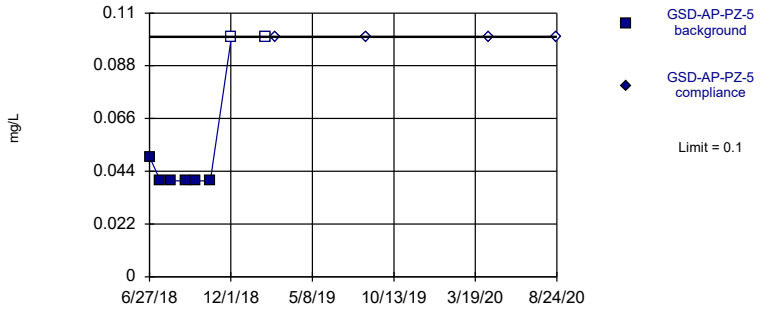
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. 25% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

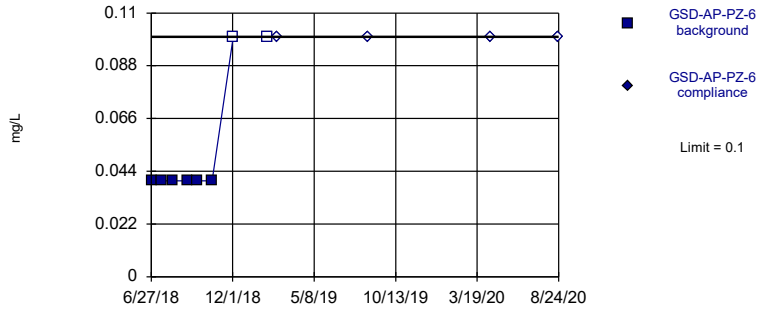
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 8 background values. 25% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005912 (1 of 3).

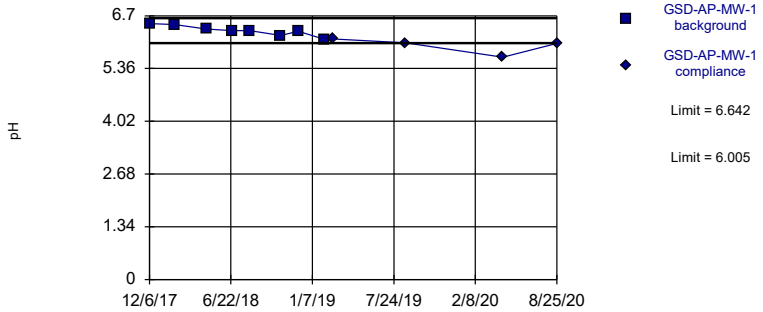
Constituent: Fluoride Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.324, Std. Dev.=0.1322, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9411, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

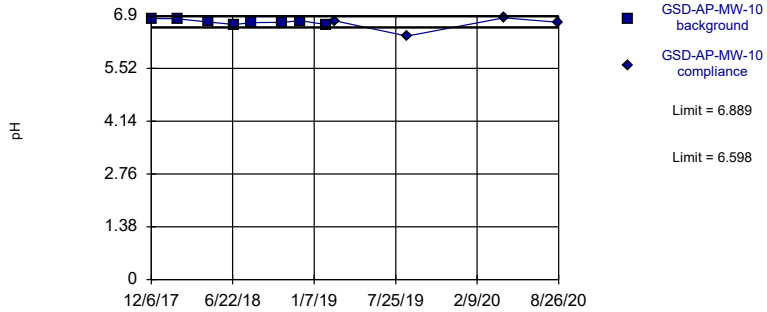
Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



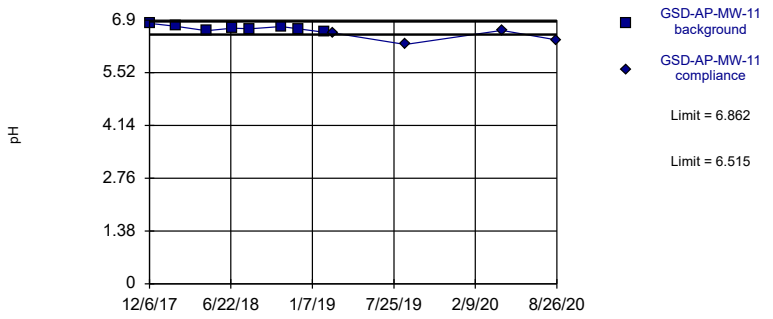
Background Data Summary: Mean=6.744, Std. Dev.=0.06046, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9217, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.689, Std. Dev.=0.072, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9817, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

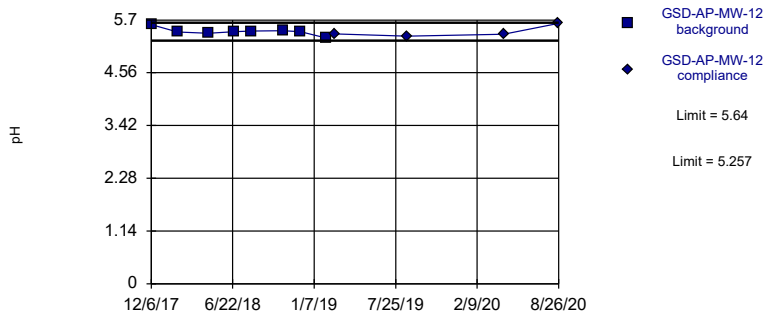
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.449, Std. Dev.=0.07954, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.885, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

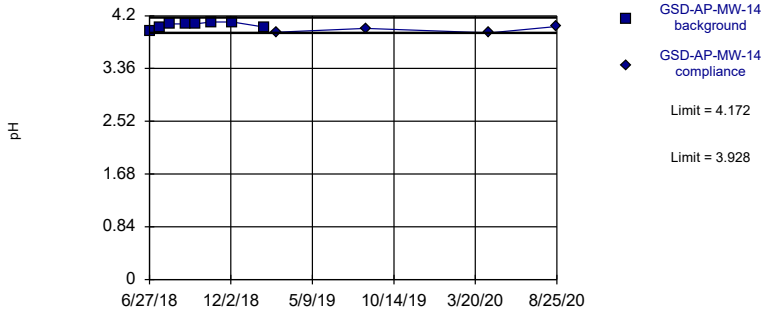
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.05, Std. Dev.=0.05071, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8654, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

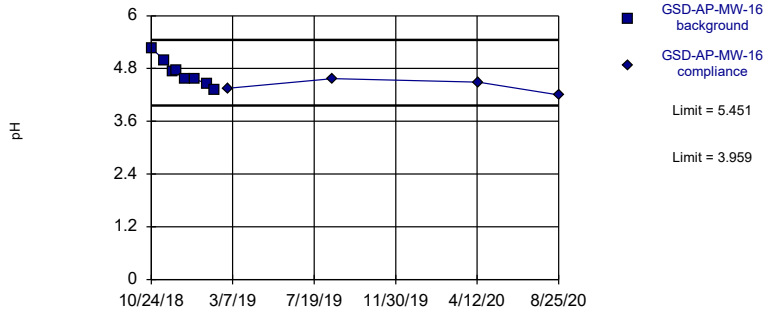
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=4.705, Std. Dev.=0.3101, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9564, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

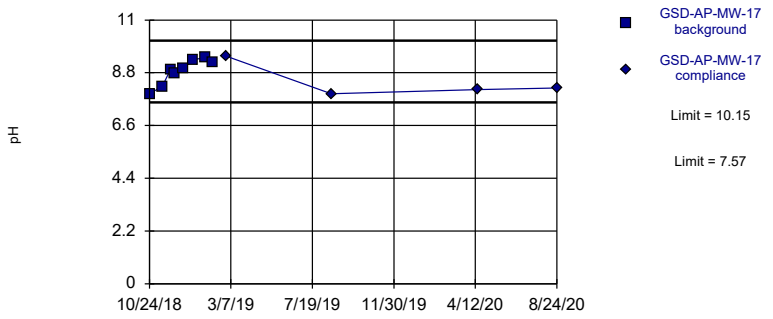
Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.858, Std. Dev.=0.5351, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9021, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

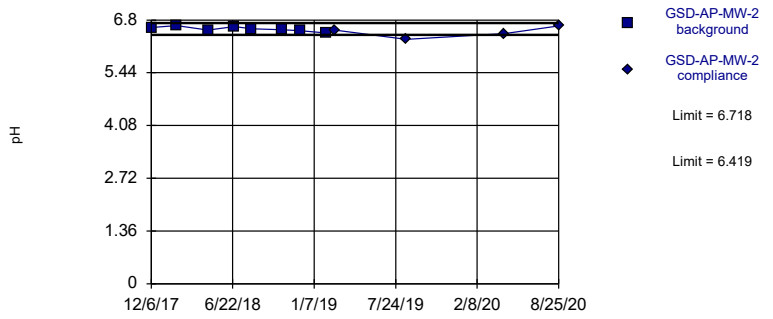
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.569, Std. Dev.=0.06221, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9822, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

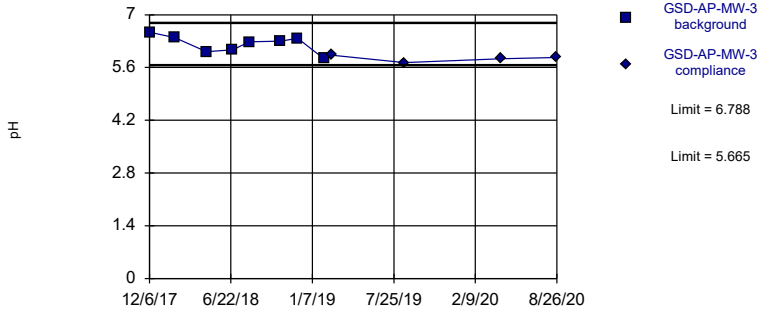
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.226, Std. Dev.=0.2334, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9505, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

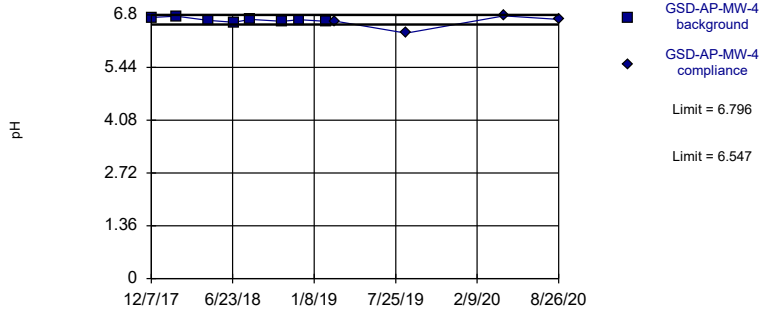
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.671, Std. Dev.=0.05167, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9281, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

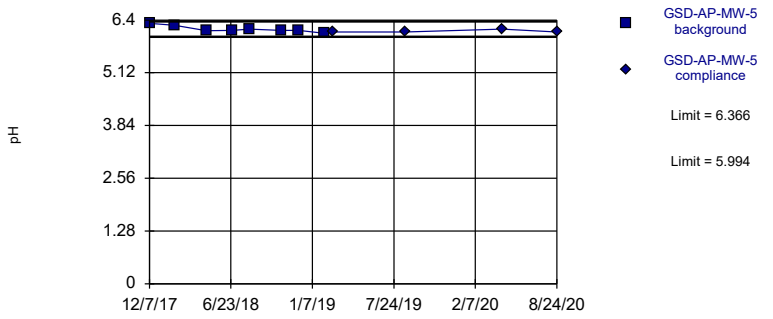
Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.18, Std. Dev.=0.07746, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8741, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

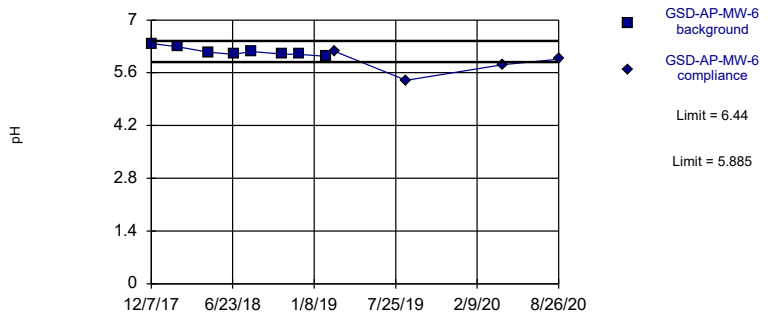
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.163, Std. Dev.=0.1154, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8662, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:51 PM View: Appendix III - Intrawell

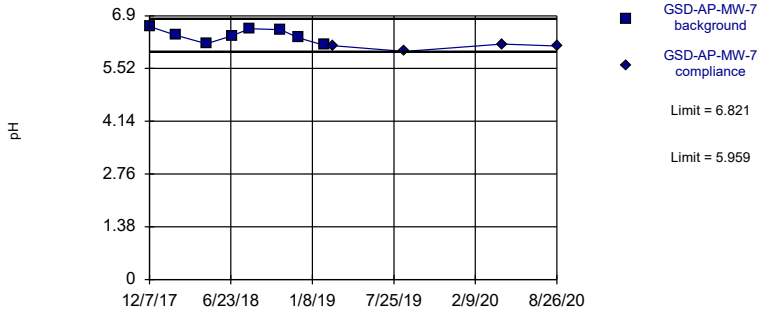
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.39, Std. Dev.=0.1789, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9328, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:52 PM View: Appendix III - Intrawell

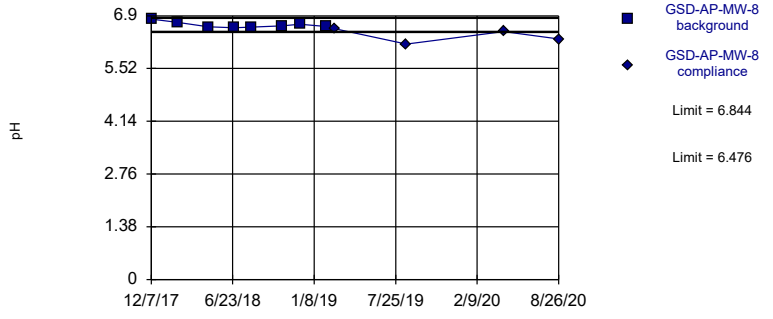
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.66, Std. Dev.=0.07635, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8626, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

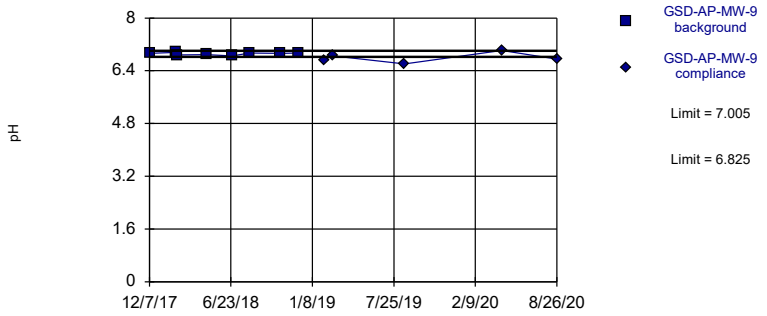
Constituent: pH Analysis Run 11/5/2020 12:52 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.915, Std. Dev.=0.03742, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9068, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

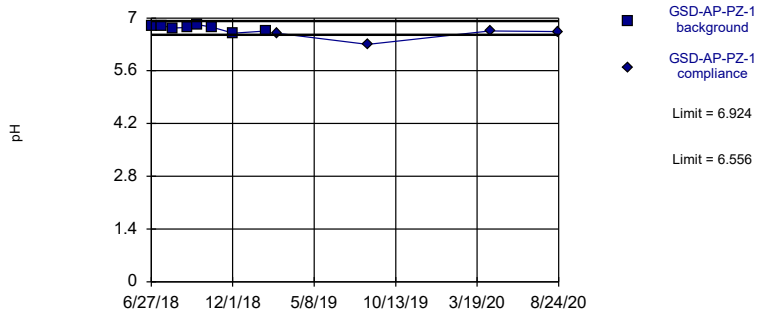
Constituent: pH Analysis Run 11/5/2020 12:52 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.74, Std. Dev.=0.07635, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9273, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

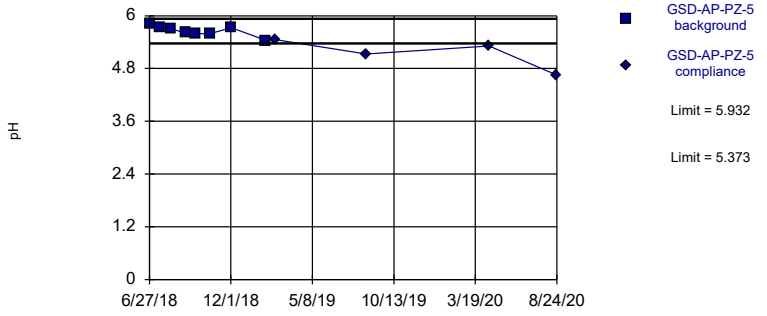
Constituent: pH Analysis Run 11/5/2020 12:52 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.653, Std. Dev.=0.1161, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9481, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

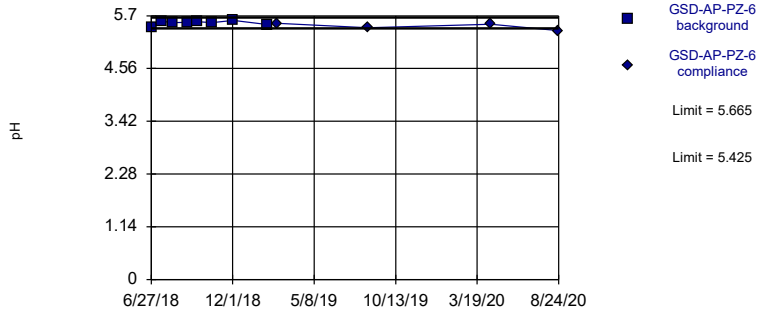
Constituent: pH Analysis Run 11/5/2020 12:52 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=5.545, Std. Dev.=0.04986, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8699, critical = 0.749. Kappa = 2.407 (c=7, w=15, 1 of 3, event alpha = 0.05132). Report alpha = 0.0005016.

Constituent: pH Analysis Run 11/5/2020 12:52 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-1
12/6/2017	0.1	
2/6/2018	0.08 (J)	
4/23/2018	0.07 (J)	
6/26/2018	0.08 (J)	
8/7/2018	0.07 (J)	
10/22/2018	0.07 (J)	
12/4/2018	0.04 (J)	
2/5/2019	0.0525 (J)	
2/26/2019		<0.1
8/21/2019		<0.1
4/15/2020		<0.1
8/25/2020		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-10	GSD-AP-MW-10
12/6/2017	0.09 (J)	
2/7/2018	0.08 (J)	
4/24/2018	0.08 (J)	
6/27/2018	0.09 (J)	
8/7/2018	0.04 (J)	
10/22/2018	0.1	
12/4/2018	0.07 (J)	
2/6/2019	0.107	
2/26/2019		0.0813 (J)
8/22/2019		0.084 (J)
4/15/2020		0.112
8/26/2020		0.0997 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-11	GSD-AP-MW-11
12/6/2017	0.06 (J)	
2/7/2018	0.05 (J)	
4/24/2018	0.05 (J)	
6/27/2018	0.06 (J)	
8/8/2018	0.06 (J)	
10/23/2018	0.06 (J)	
12/4/2018	<0.1	
2/6/2019	0.0678 (J)	
2/27/2019		0.0985 (J)
8/22/2019		<0.1
4/14/2020		0.0878 (J)
8/26/2020		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-12	GSD-AP-MW-12
12/6/2017	<0.1	
2/8/2018	<0.1	
4/24/2018	<0.1	
6/27/2018	<0.1	
8/8/2018	<0.1	
10/23/2018	0.04 (J)	
12/5/2018	<0.1	
2/6/2019	<0.1	
2/27/2019		<0.1
8/22/2019		<0.1
4/14/2020		<0.1
8/26/2020		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-14	GSD-AP-MW-14
6/27/2018	0.18	
7/18/2018	0.23	
8/6/2018	0.23	
9/5/2018	0.22	
9/24/2018	0.2	
10/24/2018	0.14	
12/5/2018	0.07 (J)	
2/5/2019	<0.1	
2/28/2019		<0.1
8/20/2019		<0.1
4/16/2020		<0.1
8/25/2020		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-16	GSD-AP-MW-16
10/24/2018	0.11	
11/14/2018	0.1	
11/28/2018	0.1	
12/5/2018	0.11	
12/18/2018	0.14	
1/3/2019	0.16	
1/24/2019	<0.1	
2/5/2019	<0.1	
2/28/2019		<0.1
6/24/2019		<0.1 (D)
8/19/2019		<0.1
4/15/2020		<0.1
8/25/2020		0.0863 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17	GSD-AP-MW-17
10/24/2018	0.23	
11/14/2018	0.2	
11/28/2018	0.19	
12/5/2018	0.19	
12/18/2018	0.15	
1/3/2019	0.19	
1/24/2019	0.168	
2/5/2019	0.192	
2/28/2019		0.182
8/19/2019		0.187
4/16/2020		0.166
8/24/2020		0.163

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-2	GSD-AP-MW-2
12/6/2017	0.3	
2/6/2018	0.27	
4/23/2018	0.19	
6/27/2018	0.28	
8/7/2018	0.24	
10/22/2018	0.24	
12/4/2018	0.15	
2/5/2019	0.207	
2/26/2019		0.264
8/20/2019		0.252
4/15/2020		0.21
8/25/2020		0.273

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-3
12/6/2017	0.13	
2/6/2018	0.08 (J)	
4/24/2018	0.05 (J)	
6/27/2018	0.07 (J)	
8/7/2018	0.09 (J)	
10/22/2018	0.11	
12/3/2018	0.08 (J)	
2/5/2019	0.064 (J)	
2/25/2019		<0.1
6/18/2019		0.0664 (J)
8/20/2019		0.0592 (J)
4/13/2020		<0.1
8/26/2020		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-4	GSD-AP-MW-4
12/7/2017	0.25	
2/6/2018	0.24	
4/24/2018	0.2	
6/26/2018	0.22	
8/6/2018	0.22	
10/22/2018	0.24	
12/3/2018	0.22	
2/5/2019	0.259	
2/26/2019		0.246
8/20/2019		0.197
4/15/2020		0.238
8/26/2020		0.251

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-5	GSD-AP-MW-5
12/7/2017	0.06 (J)	
2/6/2018	0.05 (J)	
4/25/2018	0.05 (J)	
6/27/2018	0.06 (J)	
8/7/2018	0.06 (J)	
10/23/2018	0.07 (J)	
12/5/2018	0.04 (J)	
2/5/2019	0.0651 (J)	
2/27/2019		0.0578 (J)
8/20/2019		0.0567 (J)
4/13/2020		0.0688 (J)
8/24/2020		0.0607 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-6	GSD-AP-MW-6
12/7/2017	0.06 (J)	
2/8/2018	0.04 (J)	
4/25/2018	0.04 (J)	
6/26/2018	0.05 (J)	
8/7/2018	0.05 (J)	
10/23/2018	0.06 (J)	
12/3/2018	<0.1	
2/5/2019	0.0581 (J)	
2/26/2019		0.0816 (J)
8/20/2019		<0.1
4/13/2020		<0.1
8/26/2020		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-7	GSD-AP-MW-7
12/7/2017	0.09 (J)	
2/8/2018	0.07 (J)	
4/25/2018	0.07 (J)	
6/26/2018	0.09 (J)	
8/8/2018	0.1	
10/23/2018	0.1	
12/4/2018	0.06 (J)	
2/6/2019	<0.1	
2/27/2019		0.0824 (J)
8/21/2019		0.068 (J)
4/15/2020		0.0775 (J)
8/26/2020		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-8
12/7/2017	0.14	
2/8/2018	0.11	
4/25/2018	0.09 (J)	
6/26/2018	0.1	
8/8/2018	0.1	
10/23/2018	0.11	
12/4/2018	0.08 (J)	
2/6/2019	<0.1	
2/27/2019		0.108
8/21/2019		0.0648 (J)
4/14/2020		0.0845 (J)
8/26/2020		0.0732 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-9	GSD-AP-MW-9
12/7/2017	0.12	
2/12/2018	0.11	
4/25/2018	0.12	
6/26/2018	0.13	
8/8/2018	0.12	
10/23/2018	0.13	
12/5/2018	0.04 (J)	
2/6/2019	<0.1	
2/27/2019		0.147
8/21/2019		0.0984 (J)
4/14/2020		0.133
8/26/2020		0.13

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-PZ-1	GSD-AP-PZ-1
6/27/2018	0.13	
7/18/2018	0.11	
8/7/2018	0.11	
9/5/2018	0.13	
9/24/2018	0.13	
10/22/2018	0.13	
12/3/2018	0.08 (J)	
2/5/2019	0.0934 (J)	
2/25/2019		<0.1
8/20/2019		0.0889 (J)
4/13/2020		0.103
8/24/2020		0.114

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-PZ-5	GSD-AP-PZ-5
6/27/2018	0.05 (J)	
7/18/2018	0.04 (J)	
8/8/2018	0.04 (J)	
9/5/2018	0.04 (J)	
9/24/2018	0.04 (J)	
10/23/2018	0.04 (J)	
12/3/2018	<0.1	
2/7/2019	<0.1	
2/25/2019		<0.1
8/21/2019		<0.1
4/15/2020		<0.1
8/24/2020		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-PZ-6	GSD-AP-PZ-6
6/27/2018	0.04 (J)	
7/18/2018	0.04 (J)	
8/8/2018	0.04 (J)	
9/5/2018	0.04 (J)	
9/24/2018	0.04 (J)	
10/23/2018	0.04 (J)	
12/3/2018	<0.1	
2/7/2019	<0.1	
2/25/2019		<0.1
8/21/2019		<0.1
4/15/2020		<0.1
8/24/2020		<0.1

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-1
12/6/2017	6.5	
2/6/2018	6.48	
4/23/2018	6.36	
6/26/2018	6.32	
8/7/2018	6.32	
10/22/2018	6.2	
12/4/2018	6.31	
2/5/2019	6.1	
2/26/2019		6.11
8/21/2019		6.01
4/15/2020		5.65
8/25/2020		6

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-10	GSD-AP-MW-10
12/6/2017	6.83	
2/7/2018	6.82	
4/24/2018	6.74	
6/27/2018	6.67	
8/7/2018	6.72	
10/22/2018	6.73	
12/4/2018	6.77	
2/6/2019	6.67	
2/26/2019		6.77
8/22/2019		6.37
4/15/2020		6.85
8/26/2020		6.73

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-11	GSD-AP-MW-11
12/6/2017	6.81	
2/7/2018	6.74	
4/24/2018	6.62	
6/27/2018	6.69	
8/8/2018	6.67	
10/23/2018	6.73	
12/4/2018	6.67	
2/6/2019	6.58	
2/27/2019		6.56
8/22/2019		6.26
4/14/2020		6.63
8/26/2020		6.38

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-12	GSD-AP-MW-12
12/6/2017	5.6	
2/8/2018	5.44	
4/24/2018	5.41	
6/27/2018	5.45	
8/8/2018	5.46	
10/23/2018	5.47	
12/5/2018	5.45	
2/6/2019	5.31	
2/27/2019		5.4
8/22/2019		5.35
4/14/2020		5.39
8/26/2020		5.63

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-14	GSD-AP-MW-14
6/27/2018	3.95	
7/18/2018	4.02	
8/6/2018	4.07	
9/5/2018	4.07	
9/24/2018	4.07	
10/24/2018	4.1	
12/5/2018	4.1	
2/5/2019	4.02	
2/28/2019		3.94 (E)
8/20/2019		4
4/16/2020		3.93
8/25/2020		4.03

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-16	GSD-AP-MW-16
10/24/2018	5.27	
11/14/2018	4.99	
11/28/2018	4.74	
12/5/2018	4.76	
12/18/2018	4.57	
1/3/2019	4.56	
1/24/2019	4.45	
2/5/2019	4.3	
2/28/2019		4.35
8/19/2019		4.57
4/15/2020		4.49
8/25/2020		4.2

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-17	GSD-AP-MW-17
10/24/2018	7.92	
11/14/2018	8.23	
11/28/2018	8.95	
12/5/2018	8.77	
12/18/2018	8.99	
1/3/2019	9.35	
1/24/2019	9.42	
2/5/2019	9.23	
2/28/2019		9.48
8/19/2019		7.93
4/16/2020		8.1
8/24/2020		8.17

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-2	GSD-AP-MW-2
12/6/2017	6.61	
2/6/2018	6.66	
4/23/2018	6.54	
6/27/2018	6.63	
8/7/2018	6.57	
10/22/2018	6.55	
12/4/2018	6.52	
2/5/2019	6.47	
2/26/2019		6.54
8/20/2019		6.3
4/15/2020		6.45
8/25/2020		6.65

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-3	GSD-AP-MW-3
12/6/2017	6.54	
2/6/2018	6.39	
4/24/2018	6.02	
6/27/2018	6.07	
8/7/2018	6.28	
10/22/2018	6.3	
12/3/2018	6.38	
2/5/2019	5.83	
2/25/2019		5.93
8/20/2019		5.73
4/13/2020		5.83
8/26/2020		5.87

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-4	GSD-AP-MW-4
12/7/2017	6.73	
2/6/2018	6.76	
4/24/2018	6.66	
6/26/2018	6.61	
8/6/2018	6.68	
10/22/2018	6.63	
12/3/2018	6.67	
2/5/2019	6.63	
2/26/2019		6.64
8/20/2019		6.33
4/15/2020		6.77
8/26/2020		6.68

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-5	GSD-AP-MW-5
12/7/2017	6.32	
2/6/2018	6.27	
4/25/2018	6.14	
6/27/2018	6.15	
8/7/2018	6.18	
10/23/2018	6.15	
12/5/2018	6.15	
2/5/2019	6.08	
2/27/2019		6.11
8/20/2019		6.11
4/13/2020		6.18
8/24/2020		6.11

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-6	GSD-AP-MW-6
12/7/2017	6.38	
2/8/2018	6.29	
4/25/2018	6.15	
6/26/2018	6.09	
8/7/2018	6.16	
10/23/2018	6.1	
12/3/2018	6.09	
2/5/2019	6.04	
2/26/2019		6.17
8/20/2019		5.4
4/13/2020		5.82
8/26/2020		5.96

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-7	GSD-AP-MW-7
12/7/2017	6.62	
2/8/2018	6.39	
4/25/2018	6.17	
6/26/2018	6.38	
8/8/2018	6.56	
10/23/2018	6.54	
12/4/2018	6.33	
2/6/2019	6.13	
2/27/2019		6.12
8/21/2019		5.97
4/15/2020		6.16
8/26/2020		6.11

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-8
12/7/2017	6.81	
2/8/2018	6.73	
4/25/2018	6.61	
6/26/2018	6.59	
8/8/2018	6.6	
10/23/2018	6.64	
12/4/2018	6.68	
2/6/2019	6.62	
2/27/2019		6.56
8/21/2019		6.16
4/14/2020		6.49
8/26/2020		6.29

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-9	GSD-AP-MW-9
12/7/2017	6.93	
2/8/2018	6.96	
2/12/2018	6.88	
4/25/2018	6.89	
6/26/2018	6.85	
8/8/2018	6.94	
10/23/2018	6.93	
12/5/2018	6.94	
2/6/2019		6.73
2/27/2019		6.85
8/21/2019		6.61
4/14/2020		7.02
8/26/2020		6.75

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-PZ-1	GSD-AP-PZ-1
6/27/2018	6.79	
7/18/2018	6.8	
8/7/2018	6.73	
9/5/2018	6.75	
9/24/2018	6.83	
10/22/2018	6.76	
12/3/2018	6.6	
2/5/2019	6.66	
2/25/2019		6.6
8/20/2019		6.3
4/13/2020		6.66
8/24/2020		6.64

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-PZ-5	GSD-AP-PZ-5
6/27/2018	5.81	
7/18/2018	5.74	
8/8/2018	5.7	
9/5/2018	5.61	
9/24/2018	5.59	
10/23/2018	5.6	
12/3/2018	5.73	
2/7/2019	5.44	
2/25/2019		5.46
8/21/2019		5.13
4/15/2020		5.31
8/24/2020		4.65

Prediction Limit

Constituent: pH (pH) Analysis Run 11/5/2020 12:56 PM View: Appendix III - Intrawell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-PZ-6	GSD-AP-PZ-6
6/27/2018	5.44	
7/18/2018	5.58	
8/8/2018	5.55	
9/5/2018	5.56	
9/24/2018	5.57	
10/23/2018	5.55	
12/3/2018	5.6	
2/7/2019	5.51	
2/25/2019		5.54
8/21/2019		5.44
4/15/2020		5.52
8/24/2020		5.38

FIGURE E.

Interwell Prediction Limits - Significant Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GSD-AP-MW-1	0.1	n/a	8/25/2020	1.11	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-10	0.1	n/a	8/26/2020	0.108	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-11	0.1	n/a	8/26/2020	0.257	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-2	0.1	n/a	8/25/2020	0.528	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-3	0.1	n/a	8/26/2020	1.16	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-4	0.1	n/a	8/26/2020	0.398	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-5	0.1	n/a	8/24/2020	0.329	Yes	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Calcium (mg/L)	GSD-AP-MW-1	30.18	n/a	8/25/2020	218	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-10	30.18	n/a	8/26/2020	37.8	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-11	30.18	n/a	8/26/2020	111	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-12	30.18	n/a	8/26/2020	68.4	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-2	30.18	n/a	8/25/2020	80.5	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-3	30.18	n/a	8/26/2020	75.7	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-5	30.18	n/a	8/24/2020	35.5	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-8	30.18	n/a	8/26/2020	55.5	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-9	30.18	n/a	8/26/2020	43.2	Yes	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-1	4.149	n/a	8/25/2020	5.59	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-10	4.149	n/a	8/26/2020	5.39	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-11	4.149	n/a	8/26/2020	4.74	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-12	4.149	n/a	8/26/2020	5.91	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-3	4.149	n/a	8/26/2020	5.89	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-4	4.149	n/a	8/26/2020	8.96	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-5	4.149	n/a	8/24/2020	6.64	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-6	4.149	n/a	8/26/2020	9.21	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-7	4.149	n/a	8/26/2020	6.19	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-8	4.149	n/a	8/26/2020	5.16	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-MW-9	4.149	n/a	8/26/2020	6.57	Yes	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Sulfate (mg/L)	GSD-AP-MW-1	207	n/a	8/25/2020	642	Yes	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-11	207	n/a	8/26/2020	280	Yes	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-12	207	n/a	8/26/2020	282	Yes	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-3	207	n/a	8/26/2020	246	Yes	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-1	288.3	n/a	8/25/2020	1060	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-11	288.3	n/a	8/26/2020	517	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-12	288.3	n/a	8/26/2020	472	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-2	288.3	n/a	8/25/2020	339	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-3	288.3	n/a	8/26/2020	455	Yes	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**GSD-AP-MW-1**	**0.1**	**n/a**	**8/25/2020**	**1.11**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-10**	**0.1**	**n/a**	**8/26/2020**	**0.108**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-11**	**0.1**	**n/a**	**8/26/2020**	**0.257**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GSD-AP-MW-12	0.1	n/a	8/26/2020	0.0698J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	**GSD-AP-MW-2**	**0.1**	**n/a**	**8/25/2020**	**0.528**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-3**	**0.1**	**n/a**	**8/26/2020**	**1.16**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-4**	**0.1**	**n/a**	**8/26/2020**	**0.398**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**GSD-AP-MW-5**	**0.1**	**n/a**	**8/24/2020**	**0.329**	**Yes**	**37**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00126**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	GSD-AP-MW-6	0.1	n/a	8/26/2020	0.0633J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-7	0.1	n/a	8/26/2020	0.0665J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-8	0.1	n/a	8/26/2020	0.0501J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-MW-9	0.1	n/a	8/26/2020	0.0565J	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-PZ-1	0.1	n/a	8/24/2020	0.1ND	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-PZ-5	0.1	n/a	8/24/2020	0.1ND	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Boron (mg/L)	GSD-AP-PZ-6	0.1	n/a	8/24/2020	0.1ND	No	37	n/a	n/a	51.35	n/a	n/a	0.00126	NP Inter (NDs) 1 of 2
Calcium (mg/L)	**GSD-AP-MW-1**	**30.18**	**n/a**	**8/25/2020**	**218**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-10**	**30.18**	**n/a**	**8/26/2020**	**37.8**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-11**	**30.18**	**n/a**	**8/26/2020**	**111**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-12**	**30.18**	**n/a**	**8/26/2020**	**68.4**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-2**	**30.18**	**n/a**	**8/25/2020**	**80.5**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-3**	**30.18**	**n/a**	**8/26/2020**	**75.7**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	GSD-AP-MW-4	30.18	n/a	8/26/2020	22.8	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	**GSD-AP-MW-5**	**30.18**	**n/a**	**8/24/2020**	**35.5**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	GSD-AP-MW-6	30.18	n/a	8/26/2020	12.9	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-MW-7	30.18	n/a	8/26/2020	16.7	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	**GSD-AP-MW-8**	**30.18**	**n/a**	**8/26/2020**	**55.5**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	**GSD-AP-MW-9**	**30.18**	**n/a**	**8/26/2020**	**43.2**	**Yes**	**37**	**18.13**	**5.501**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Calcium (mg/L)	GSD-AP-PZ-1	30.18	n/a	8/24/2020	29	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-PZ-5	30.18	n/a	8/24/2020	2.94	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Calcium (mg/L)	GSD-AP-PZ-6	30.18	n/a	8/24/2020	3.45	No	37	18.13	5.501	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	**GSD-AP-MW-1**	**4.149**	**n/a**	**8/25/2020**	**5.59**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-10**	**4.149**	**n/a**	**8/26/2020**	**5.39**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-11**	**4.149**	**n/a**	**8/26/2020**	**4.74**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-12**	**4.149**	**n/a**	**8/26/2020**	**5.91**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	GSD-AP-MW-2	4.149	n/a	8/25/2020	2	No	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	**GSD-AP-MW-3**	**4.149**	**n/a**	**8/26/2020**	**5.89**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-4**	**4.149**	**n/a**	**8/26/2020**	**8.96**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-5**	**4.149**	**n/a**	**8/24/2020**	**6.64**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-6**	**4.149**	**n/a**	**8/26/2020**	**9.21**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-7**	**4.149**	**n/a**	**8/26/2020**	**6.19**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-8**	**4.149**	**n/a**	**8/26/2020**	**5.16**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	**GSD-AP-MW-9**	**4.149**	**n/a**	**8/26/2020**	**6.57**	**Yes**	**37**	**3.277**	**0.3978**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Chloride (mg/L)	GSD-AP-PZ-1	4.149	n/a	8/24/2020	3.35	No	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-PZ-5	4.149	n/a	8/24/2020	3.96	No	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Chloride (mg/L)	GSD-AP-PZ-6	4.149	n/a	8/24/2020	3.59	No	37	3.277	0.3978	0	None	No	0.0005016	Param Inter 1 of 2
Sulfate (mg/L)	**GSD-AP-MW-1**	**207**	**n/a**	**8/25/2020**	**642**	**Yes**	**37**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00126**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GSD-AP-MW-10	207	n/a	8/26/2020	10.5	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GSD-AP-MW-11**	**207**	**n/a**	**8/26/2020**	**280**	**Yes**	**37**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00126**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GSD-AP-MW-12**	**207**	**n/a**	**8/26/2020**	**282**	**Yes**	**37**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00126**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GSD-AP-MW-2	207	n/a	8/25/2020	114	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GSD-AP-MW-3**	**207**	**n/a**	**8/26/2020**	**246**	**Yes**	**37**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00126**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GSD-AP-MW-4	207	n/a	8/26/2020	15.5	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-5	207	n/a	8/24/2020	21.2	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-6	207	n/a	8/26/2020	13.1	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-7	207	n/a	8/26/2020	9.19	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-MW-8	207	n/a	8/26/2020	16.1	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:00 PM

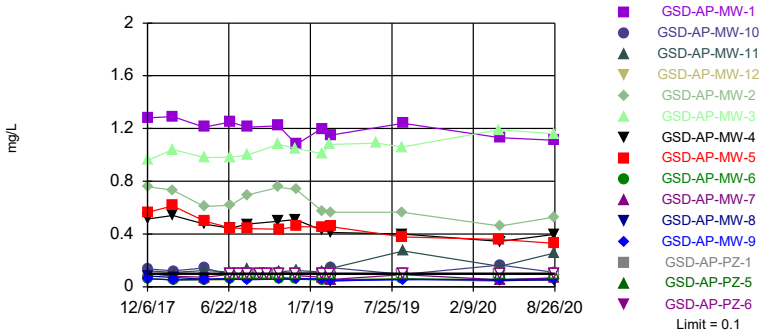
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate (mg/L)	GSD-AP-MW-9	207	n/a	8/26/2020	12.9	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-PZ-1	207	n/a	8/24/2020	4.16	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-PZ-5	207	n/a	8/24/2020	0.5ND	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GSD-AP-PZ-6	207	n/a	8/24/2020	1.31	No	37	n/a	n/a	0	n/a	n/a	0.00126	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**GSD-AP-MW-1**	**288.3**	**n/a**	**8/25/2020**	**1060**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	GSD-AP-MW-10	288.3	n/a	8/26/2020	186	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**GSD-AP-MW-11**	**288.3**	**n/a**	**8/26/2020**	**517**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-12**	**288.3**	**n/a**	**8/26/2020**	**472**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-2**	**288.3**	**n/a**	**8/25/2020**	**339**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-3**	**288.3**	**n/a**	**8/26/2020**	**455**	**Yes**	**37**	**172**	**53.03**	**0**	**None**	**No**	**0.0005016**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	GSD-AP-MW-4	288.3	n/a	8/26/2020	168	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-5	288.3	n/a	8/24/2020	175	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-6	288.3	n/a	8/26/2020	91.3	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-7	288.3	n/a	8/26/2020	109	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-8	288.3	n/a	8/26/2020	215	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-MW-9	288.3	n/a	8/26/2020	192	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-PZ-1	288.3	n/a	8/24/2020	114	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-PZ-5	288.3	n/a	8/24/2020	42.7	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	GSD-AP-PZ-6	288.3	n/a	8/24/2020	37.3	No	37	172	53.03	0	None	No	0.0005016	Param Inter 1 of 2

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 37 background values. 51.35% NDs. Annual per-constituent alpha = 0.03711. Individual comparison alpha = 0.00126 (1 of 2). Comparing 15 points to limit.

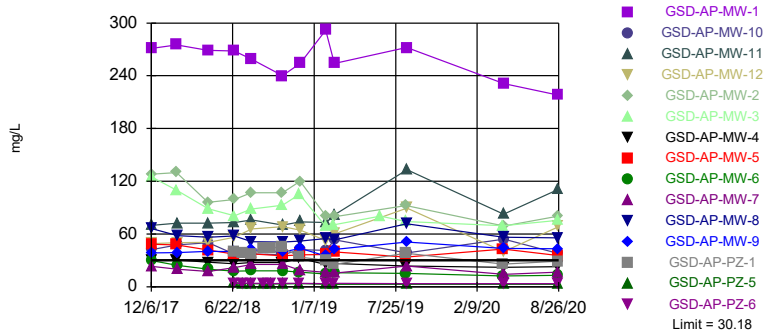
Constituent: Boron Analysis Run 11/4/2020 1:59 PM View: Appendix III - Interwell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Exceeds Limit: GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-2, GSD-AP-MW-3, GSD-AP-MW-5...

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=18.13, Std. Dev.=5.501, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9393, critical = 0.914. Kappa = 2.192 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005016. Comparing 15 points to limit.

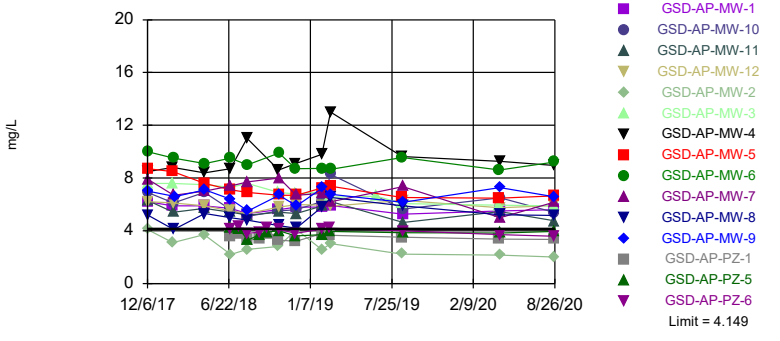
Constituent: Calcium Analysis Run 11/4/2020 1:59 PM View: Appendix III - Interwell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Exceeds Limit: GSD-AP-MW-1, GSD-AP-MW-10, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-3, GSD-AP-MW-4, GSD-AP-MW-5...

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=3.277, Std. Dev.=0.3978, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9786, critical = 0.914. Kappa = 2.192 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005016. Comparing 15 points to limit.

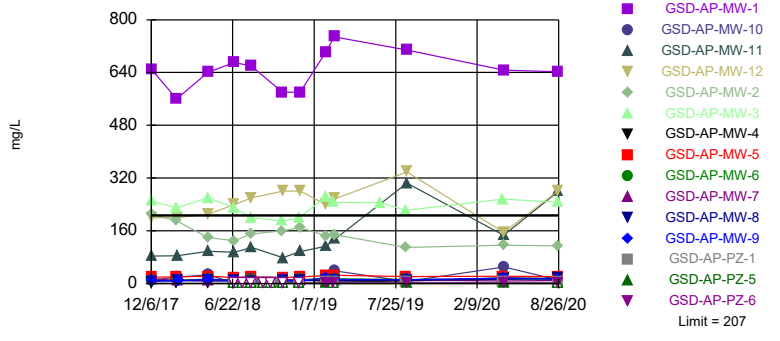
Constituent: Chloride Analysis Run 11/4/2020 1:59 PM View: Appendix III - Interwell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GSD-AP-MW-1, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-3

Prediction Limit

Interwell Non-parametric



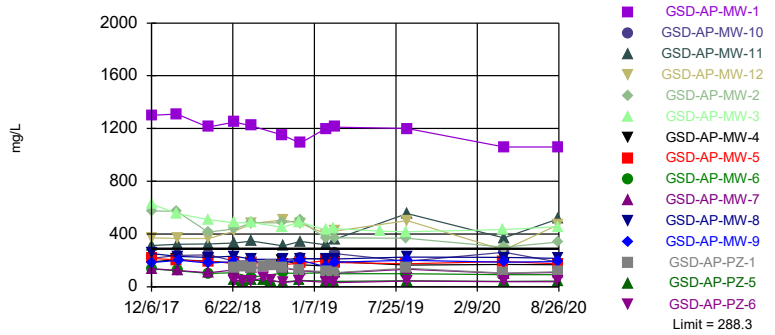
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. Annual per-constituent alpha = 0.03711. Individual comparison alpha = 0.00126 (1 of 2). Comparing 15 points to limit.

Constituent: Sulfate Analysis Run 11/4/2020 1:59 PM View: Appendix III - Interwell
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Exceeds Limit: GSD-AP-MW-1, GSD-AP-MW-11, GSD-AP-MW-12, GSD-AP-MW-2, GSD-AP-MW-3

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=172, Std. Dev.=53.03, n=37. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.928, critical = 0.914. Kappa = 2.192 (c=7, w=15, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0005016. Comparing 15 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/4/2020 1:59 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-12	GSD-AP-MW-11	GSD-AP-MW-2	GSD-AP-MW-10	GSD-AP-MW-3	GSD-AP-MW-7	GSD-AP-MW-9	GSD-AP-MW-6
12/6/2017	1.28	0.0605 (J)	0.12	0.758	0.135	0.959			
12/7/2017							0.102	0.0614 (J)	0.063 (J)
2/6/2018	1.29			0.733		1.04			
2/7/2018			0.109		0.12				
2/8/2018		0.0527 (J)					0.0787 (J)	0.0531 (J)	0.0508 (J)
4/23/2018	1.21			0.608					
4/24/2018		0.0476 (J)	0.124		0.144	0.979			
4/25/2018							0.0734 (J)	0.0551 (J)	0.0548 (J)
6/26/2018	1.25						0.094 (J)	0.0568 (J)	0.0571 (J)
6/27/2018		0.0539 (J)	0.111	0.619	0.0903 (J)	0.982			
7/18/2018									
8/6/2018									
8/7/2018	1.21			0.697	0.106	1			0.0571 (J)
8/8/2018		0.0637 (J)	0.135				0.103	0.0524 (J)	
9/5/2018									
9/24/2018									
10/22/2018	1.22			0.754	0.107	1.08			
10/23/2018		0.0696 (J)	0.114				0.106	0.0576 (J)	0.0636 (J)
10/24/2018									
11/14/2018									
11/28/2018									
12/3/2018						1.05			0.0568 (J)
12/4/2018	1.08		0.124	0.737	0.103		0.085 (J)		
12/5/2018		0.0652 (J)						0.0561 (J)	
12/18/2018									
1/3/2019									
1/24/2019									
2/5/2019	1.2			0.575		1.01			0.0509 (J)
2/6/2019		0.0511 (J)	0.112		0.105		0.0733 (J)	0.0627 (J)	
2/7/2019									
2/25/2019						1.08			
2/26/2019	1.15			0.566	0.146				0.0527 (J)
2/27/2019		0.0494 (J)	0.14				0.0548 (J)	0.0474 (J)	
2/28/2019									
6/18/2019						1.09			
6/24/2019									
8/19/2019									
8/20/2019				0.566		1.06			0.0608 (J)
8/21/2019	1.24						0.091 (J)	0.0524 (J)	
8/22/2019		0.0625 (J)	0.272		0.0951 (J)				
4/13/2020						1.19			0.0561 (J)
4/14/2020		0.0377 (J)	0.154					0.0562 (J)	
4/15/2020	1.13			0.461	0.164		0.0534 (J)		
4/16/2020									
8/24/2020									
8/25/2020	1.11			0.528					
8/26/2020		0.0698 (J)	0.257		0.108	1.16	0.0665 (J)	0.0565 (J)	0.0633 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-4	GSD-AP-MW-5	GSD-AP-PZ-5	GSD-AP-PZ-6	GSD-AP-MW-14 ...	GSD-AP-PZ-1	GSD-AP-MW-16 ...	GSD-AP-MW-17 ...
12/6/2017									
12/7/2017	0.0828 (J)	0.515	0.566						
2/6/2018		0.541	0.614						
2/7/2018									
2/8/2018	0.0691 (J)								
4/23/2018									
4/24/2018		0.475							
4/25/2018	0.0571 (J)		0.498						
6/26/2018	0.0634 (J)	0.444							
6/27/2018			0.446	<0.1	<0.1	<0.1	<0.1		
7/18/2018				<0.1	<0.1	<0.1	<0.1		
8/6/2018		0.474				<0.1			
8/7/2018			0.442				<0.1		
8/8/2018	0.0659 (J)			<0.1	<0.1				
9/5/2018				<0.1	<0.1	<0.1	<0.1		
9/24/2018				<0.1	<0.1	<0.1	<0.1		
10/22/2018		0.496					<0.1		
10/23/2018	0.0666 (J)		0.436	<0.1	<0.1				
10/24/2018						<0.1		0.0261 (J)	0.0357 (J)
11/14/2018								0.0209 (J)	0.0348 (J)
11/28/2018								0.0239 (J)	0.0313 (J)
12/3/2018		0.51		<0.1	<0.1		<0.1		
12/4/2018	0.0617 (J)								
12/5/2018			0.456			<0.1		<0.1	0.0363 (J)
12/18/2018								<0.1	0.033 (J)
1/3/2019								0.0209 (J)	0.036 (J)
1/24/2019								0.0271 (J)	0.0307 (J)
2/5/2019		0.43	0.453			<0.1	<0.1	0.0245 (J)	0.0306 (J)
2/6/2019	0.0586 (J)								
2/7/2019				<0.1	<0.1				
2/25/2019				<0.1	<0.1		<0.1		
2/26/2019		0.411							
2/27/2019	0.0428 (J)		0.457						
2/28/2019						<0.1		<0.1	0.0206 (J)
6/18/2019									
6/24/2019								<0.1	
8/19/2019								<0.1	0.0341 (J)
8/20/2019		0.399	0.378			<0.1	<0.1		
8/21/2019	0.0569 (J)			<0.1	<0.1				
8/22/2019									
4/13/2020			0.359				<0.1		
4/14/2020	0.0474 (J)								
4/15/2020		0.344		<0.1	<0.1			<0.1	
4/16/2020						<0.1			0.0331 (J)
8/24/2020			0.329	<0.1	<0.1		<0.1		0.0303 (J)
8/25/2020						<0.1		<0.1	
8/26/2020	0.0501 (J)	0.398							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-12	GSD-AP-MW-11	GSD-AP-MW-2	GSD-AP-MW-10	GSD-AP-MW-3	GSD-AP-MW-7	GSD-AP-MW-9	GSD-AP-MW-6
12/6/2017	271	49	70	128	42	125			
12/7/2017							23.4	38.7	29.8
2/6/2018	275			130		110			
2/7/2018			72.4		47.6				
2/8/2018		50					20.1	38.8	24.3
4/23/2018	269			95.9					
4/24/2018		50.5	72.3		50.1	88.8			
4/25/2018							17.4	40.3	19.8
6/26/2018	268						21.8	39.9	17.8
6/27/2018		56.3	73.1	99.4	37.1	80.8			
7/18/2018									
8/6/2018									
8/7/2018	259			107	37.4	88.5			18.3
8/8/2018		65.7	76				25.4	42.3	
9/5/2018									
9/24/2018									
10/22/2018	240			107	36.3	92.7			
10/23/2018		68.3	70.2				25.6	39.8	18.1
10/24/2018									
11/14/2018									
11/28/2018									
12/3/2018						105			16.6
12/4/2018	254		74	120	42.1		19		
12/5/2018		64.3						43.8	
12/18/2018									
1/3/2019									
1/24/2019									
2/5/2019	292			80.6		68.6			14.5
2/6/2019		52.2	73.1		41.3		16.4	34.9	
2/7/2019									
2/25/2019						70.6			
2/26/2019	254			79.6	53.3				16
2/27/2019		60.2	82.2				15.6	42.5	
2/28/2019									
6/18/2019						80.5			
6/24/2019									
8/19/2019									
8/20/2019				92.3		74.1			15.1
8/21/2019	272						23.5	50.9	
8/22/2019		89.4	133		38.5				
4/13/2020						69.5			12.5
4/14/2020		40	82.4					43.6	
4/15/2020	231			69.2	54.1		14		
4/16/2020									
8/24/2020									
8/25/2020	218			80.5					
8/26/2020		68.4	111		37.8	75.7	16.7	43.2	12.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-4	GSD-AP-MW-5	GSD-AP-PZ-5	GSD-AP-PZ-6	GSD-AP-MW-14 ...	GSD-AP-PZ-1	GSD-AP-MW-16 ...	GSD-AP-MW-17 ...
12/6/2017									
12/7/2017	66.1	30.1	48.2						
2/6/2018		30.6	47.8						
2/7/2018									
2/8/2018	58								
4/23/2018									
4/24/2018		27.8							
4/25/2018	56.3		41.8						
6/26/2018	57.7	26.2							
6/27/2018			36.9	4.56	3.89	16.6	39.4		
7/18/2018				3.92	3.8	15.3	38.4		
8/6/2018		27.5				13.8			
8/7/2018			37.6				36.7		
8/8/2018	51.2			3.74	3.89				
9/5/2018				3.38	3.78	12.1	43.6		
9/24/2018				3.25	3.73	11.8	44.5		
10/22/2018		27.7					45		
10/23/2018	50.9		35.3	3.37	3.79				
10/24/2018						10.2		18	28.3
11/14/2018								14.9	27.5
11/28/2018								14.8	20.7
12/3/2018		32.3		3.67	3.79		33.7		
12/4/2018	51.9								
12/5/2018			36.3			9.14		14.8	25.3
12/18/2018								16.4	20.9
1/3/2019								19.7	18.5
1/24/2019								19.6	17
2/5/2019		25.5	36.6			15.1	30.1	20.8	17.1
2/6/2019	55								
2/7/2019				2.89	3.75				
2/25/2019				2.95	3.81		25.6		
2/26/2019		26.4							
2/27/2019	53.4		39.6						
2/28/2019						21.4		21.5	18.6
6/18/2019									
6/24/2019								18.4	
8/19/2019								12.8	25.3
8/20/2019		23.5	33.7			14.4	38.3		
8/21/2019	71.5			3.04	3.71				
8/22/2019									
4/13/2020			43				25.9		
4/14/2020	56.2								
4/15/2020		22		2.93	3.56			13.1	
4/16/2020						20.1			30.7
8/24/2020			35.5	2.94	3.45		29		30.8
8/25/2020						13.1		12.2	
8/26/2020	55.5	22.8							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-12	GSD-AP-MW-11	GSD-AP-MW-2	GSD-AP-MW-10	GSD-AP-MW-3	GSD-AP-MW-7	GSD-AP-MW-9	GSD-AP-MW-6
12/6/2017	6.2	6.2	6.3	4.1	6.9	7.6			
12/7/2017							7.9	7	10
2/6/2018	5.9			3.1		7.6			
2/7/2018			5.4		6.1				
2/8/2018		6.1					6.7		9.5
2/12/2018								6.6	
4/23/2018	5.9			3.7					
4/24/2018		5.9	5.7		6.9	7.5			
4/25/2018							7	7.1	9.1
6/26/2018	5.7						7.4	6.4	9.5
6/27/2018		5.5	5.4	2.2	5.6	7.3			
7/18/2018									
8/6/2018									
8/7/2018	5.3			2.6	5.1	7.6			9
8/8/2018		5.3	5.2				7.7	5.5	
9/5/2018									
9/24/2018									
10/22/2018	5.6			2.8	5.5	6.9			
10/23/2018		5.8	5.4				8	6.7	9.9
10/24/2018									
11/14/2018									
11/28/2018									
12/3/2018						6.8			8.7
12/4/2018	5.8		5.3	4.1	5.6		6.7		
12/5/2018		6						5.9	
12/18/2018									
1/3/2019									
1/24/2019									
2/5/2019	5.8			2.56		6.95			8.73
2/6/2019		5.95	5.89		6.24		6.84	7.26	
2/7/2019									
2/25/2019						6.55			
2/26/2019	5.92			3.03	8.28				8.66
2/27/2019		5.88	6.2				6.21	6.77	
2/28/2019									
6/18/2019						6.62			
6/24/2019									
8/19/2019									
8/20/2019				2.24		6.07			9.55
8/21/2019	5.26						7.35	6.16	
8/22/2019		6.31	4.64		5.66				
4/13/2020						5.95			8.6
4/14/2020		5.74	5.46					7.27	
4/15/2020	5.5			2.16	6.49		4.99		
4/16/2020									
8/24/2020									
8/25/2020	5.59			2					
8/26/2020		5.91	4.74		5.39	5.89	6.19	6.57	9.21

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-4	GSD-AP-MW-5	GSD-AP-PZ-5	GSD-AP-PZ-6	GSD-AP-MW-14 ...	GSD-AP-PZ-1	GSD-AP-MW-16 ...	GSD-AP-MW-17 ...
12/6/2017									
12/7/2017	5.2	8.5	8.7						
2/6/2018		8.8	8.5						
2/7/2018									
2/8/2018	4.1								
2/12/2018									
4/23/2018									
4/24/2018		8.4							
4/25/2018	5.3		7.6						
6/26/2018	5	8.7							
6/27/2018			7.1	4.2	4.1	3.1	3.6		
7/18/2018				4.1	4.3	3.4	3.8		
8/6/2018		11				2.8			
8/7/2018			6.9				3.3		
8/8/2018	4.8			3.3	3.8				
9/5/2018				3.7	3.9	2.8	3.4		
9/24/2018				3.9	4.2	3.1	3.8		
10/22/2018		8.6					3.3		
10/23/2018	4.4		6.7	4	4.1				
10/24/2018						2.8		3.3	4
11/14/2018								3.6	3.6
11/28/2018								3.5	3.5
12/3/2018		9.1		3.6	3.8		3.2		
12/4/2018	4.2								
12/5/2018			6.7			2.2		3.3	3.2
12/18/2018								3.6	3.4
1/3/2019								3.4	3.2
1/24/2019								3.91	3.15
2/5/2019		9.81	7.24			3.12	3.78	3.94	2.98
2/6/2019	5.84								
2/7/2019				3.72	4.15				
2/25/2019				3.95	4.2		3.66		
2/26/2019		13							
2/27/2019	6.52		7.38						
2/28/2019						3.45		4.15	3.05
6/18/2019									
6/24/2019								3.36 (D)	
8/19/2019								3.42	2.8
8/20/2019		9.62	6.53			3.27	3.52		
8/21/2019	5.89			3.85	4				
8/22/2019									
4/13/2020			6.48				3.36		
4/14/2020	5.21								
4/15/2020		9.27		3.83	3.71			3.39	
4/16/2020						3.74			2.93
8/24/2020			6.64	3.96	3.59		3.35		2.82
8/25/2020						3.03		2.94	
8/26/2020	5.16	8.96							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-12	GSD-AP-MW-11	GSD-AP-MW-2	GSD-AP-MW-10	GSD-AP-MW-3	GSD-AP-MW-7	GSD-AP-MW-9	GSD-AP-MW-6
12/6/2017	650	200	83	210	11	250			
12/7/2017							14	9	10
2/6/2018	560			190		230			
2/7/2018			84		19				
2/8/2018		200					10		11
2/12/2018								8.3	
4/23/2018	640			140					
4/24/2018		210	98		27	260			
4/25/2018							11	12	13
6/26/2018	670						11	8.5	11
6/27/2018		240	95	130	<1	230			
7/18/2018									
8/6/2018									
8/7/2018	660			150	<1	200			12
8/8/2018		260	110				13	6.7	
9/5/2018									
9/24/2018									
10/22/2018	580			160	<1	190			
10/23/2018		280	78				13	9.4	11
10/24/2018									
11/14/2018									
11/28/2018									
12/3/2018						200			12
12/4/2018	580		97	170	11		9.8		
12/5/2018		280						7.8	
12/18/2018									
1/3/2019									
1/24/2019									
2/5/2019	702			145		263			13.9
2/6/2019		239	113		16.8		10.8	17	
2/7/2019									
2/25/2019						246			
2/26/2019	748			148	38.4				14.1
2/27/2019		257	135				8.98	12.4	
2/28/2019									
6/18/2019						245			
6/24/2019									
8/19/2019									
8/20/2019				110		222			12.3
8/21/2019	708						11.8	11.3	
8/22/2019		339	305		6.74				
4/13/2020						256			13.9
4/14/2020		155	146					15.9	
4/15/2020	647			116	50.7		7.95		
4/16/2020									
8/24/2020									
8/25/2020	642			114					
8/26/2020		282	280		10.5	246	9.19	12.9	13.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-4	GSD-AP-MW-5	GSD-AP-PZ-5	GSD-AP-PZ-6	GSD-AP-MW-14 ...	GSD-AP-PZ-1	GSD-AP-MW-16 ...	GSD-AP-MW-17 ...
12/6/2017									
12/7/2017	6.5	<1	19						
2/6/2018		<1	20						
2/7/2018									
2/8/2018	8.9								
2/12/2018									
4/23/2018									
4/24/2018		<1							
4/25/2018	7.9		22						
6/26/2018	7.5	<1							
6/27/2018			18	<1	<1	120	2.2 (J)		
7/18/2018				<1	<1	120	2.5 (J)		
8/6/2018		<1				110			
8/7/2018			20				<1		
8/8/2018	7.3			<1	<1				
9/5/2018				<1	<1	86	1.4 (J)		
9/24/2018				<1	<1	80	<1		
10/22/2018		<1					1.7 (J)		
10/23/2018	7.8		18	<1	<1				
10/24/2018						68		44	16
11/14/2018								44	13
11/28/2018								46	11
12/3/2018		<1		<1	<1		2.1 (J)		
12/4/2018	8.2								
12/5/2018			20			54		51	12
12/18/2018								76	11
1/3/2019								94	10
1/24/2019								135	10.2
2/5/2019		5.38	24.3			126	3.99	183	10.4
2/6/2019	9.53								
2/7/2019				0.639 (J)	1.69				
2/25/2019				<1	1.53		4.01		
2/26/2019		5.1							
2/27/2019	8.25		24.7						
2/28/2019						207		192	9.86
6/18/2019									
6/24/2019								129 (D)	
8/19/2019								66.6	8.74
8/20/2019		7.34	21.3			106	3.73		
8/21/2019	10.8			1.21	1.62				
8/22/2019									
4/13/2020			21.9				3.83		
4/14/2020	12.5								
4/15/2020		17.2		0.554 (J)	1.68			92.8	
4/16/2020						191			11.5
8/24/2020			21.2	<1	1.31		4.16		10
8/25/2020						98.4		74.1	
8/26/2020	16.1	15.5							

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-1	GSD-AP-MW-12	GSD-AP-MW-11	GSD-AP-MW-2	GSD-AP-MW-10	GSD-AP-MW-3	GSD-AP-MW-7	GSD-AP-MW-9	GSD-AP-MW-6
12/6/2017	1300	371	312	574	215	628			
12/7/2017							137	183	136
2/6/2018	1310			572		556			
2/7/2018			323		237				
2/8/2018		367					124		122
2/12/2018								201	
4/23/2018	1210			414					
4/24/2018		365	324		242	510			
4/25/2018							106	180	102
6/26/2018	1250						129	191	106
6/27/2018		421	333	440	194	486			
7/18/2018									
8/6/2018									
8/7/2018	1220			485	195	487			71.3
8/8/2018		479	346				142	192	
9/5/2018									
9/24/2018									
10/22/2018	1150			484	184	450			
10/23/2018		507	311				142	185	105
10/24/2018									
11/14/2018									
11/28/2018									
12/3/2018						492			102
12/4/2018	1090		343	504	215		121		
12/5/2018		479						200	
12/18/2018									
1/3/2019									
1/24/2019									
2/5/2019	1200			366		428			107
2/6/2019		399	317		208		108	151	
2/7/2019									
2/25/2019						441			
2/26/2019	1210			372	252				99.3
2/27/2019		422	360				103	186	
2/28/2019									
6/18/2019						422			
6/24/2019									
8/19/2019									
8/20/2019				369		416			98.7
8/21/2019	1200						133	200	
8/22/2019		501	555		194				
4/13/2020						433			90.7
4/14/2020		278	372					187	
4/15/2020	1060			300	262		102		
4/16/2020									
8/24/2020									
8/25/2020	1060			339					
8/26/2020		472	517		186	455	109	192	91.3

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2020 2:00 PM View: Appendix III - Interwell

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

	GSD-AP-MW-8	GSD-AP-MW-4	GSD-AP-MW-5	GSD-AP-PZ-5	GSD-AP-PZ-6	GSD-AP-MW-14 ...	GSD-AP-PZ-1	GSD-AP-MW-16 ...	GSD-AP-MW-17 ...
12/6/2017									
12/7/2017	253	189	215						
2/6/2018		206	204						
2/7/2018									
2/8/2018	229								
2/12/2018									
4/23/2018									
4/24/2018		193							
4/25/2018	223		192						
6/26/2018	232	180							
6/27/2018			180	48.7	44	219	144		
7/18/2018				46	42.7	195	156		
8/6/2018		182				175			
8/7/2018			183				140		
8/8/2018	208			48	46				
9/5/2018				47.3	67.3	153	154		
9/24/2018				44.7	49.3	127	165		
10/22/2018		204					148		
10/23/2018	209		169	35.3	31.3				
10/24/2018						125		107	184
11/14/2018								96.7	170
11/28/2018								102	167
12/3/2018		168		48.7	46		127		
12/4/2018	213								
12/5/2018			177			101		103	185
12/18/2018								126	164
1/3/2019								191	167
1/24/2019								212	137
2/5/2019		158	198			180	113	269	138
2/6/2019	212								
2/7/2019				42.7	32.7				
2/25/2019				40.7	31.3		106		
2/26/2019		191							
2/27/2019	211		185						
2/28/2019						287		261	140
6/18/2019									
6/24/2019								203.5 (D)	
8/19/2019								121	240
8/20/2019		164	174			265	141		
8/21/2019	226			46	42.7				
8/22/2019									
4/13/2020			192				104		
4/14/2020	222								
4/15/2020		170		41.3	37.3			155	
4/16/2020						280			166
8/24/2020			175	42.7	37.3		114		162
8/25/2020						160		131	
8/26/2020	215	168							

FIGURE F.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/5/2020, 1:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**GSD-AP-MW-2**	**-0.08945**	**-41**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-3**	**0.0734**	**55**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-4**	**-0.06275**	**-46**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-5**	**-0.07311**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GSD-AP-MW-11**	**8.6**	**45**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GSD-AP-MW-17 (bg)**	**-0.9327**	**-57**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GSD-AP-MW-3**	**-0.7707**	**-65**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GSD-AP-MW-5**	**-0.6853**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-1**	**-0.3093**	**-59**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-11**	**-0.1505**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-16 (bg)**	**-0.9487**	**-47**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-8**	**-0.1389**	**-40**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-PZ-5**	**-0.5093**	**-52**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GSD-AP-MW-11**	**43.04**	**46**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-1**	**-86.68**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-11**	**39.67**	**40**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-2**	**-88.86**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-3**	**-68.08**	**-50**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**

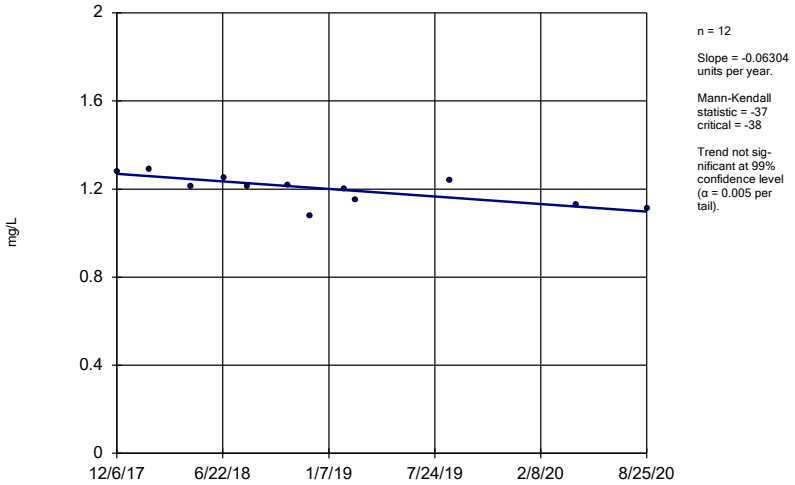
Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/5/2020, 1:01 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GSD-AP-MW-1	-0.06304	-37	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-10	-0.0007265	0	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-11	0.02312	37	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-14 (bg)	0	0	38	No	12	100	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-16 (bg)	0.03585	32	43	No	13	53.85	n/a	n/a	0.01	NP
Boron (mg/L)	GSD-AP-MW-17 (bg)	-0.003042	-28	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	**GSD-AP-MW-2**	**-0.08945**	**-41**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-3**	**0.0734**	**55**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-4**	**-0.06275**	**-46**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**GSD-AP-MW-5**	**-0.07311**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GSD-AP-MW-1	-18.1	-31	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-10	0.2588	4	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GSD-AP-MW-11**	**8.6**	**45**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GSD-AP-MW-12	7.173	26	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-14 (bg)	-0.5934	-4	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-16 (bg)	-1.38	-9	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-17 (bg)	0.1404	1	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-2	-18.51	-37	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-3	-15.52	-42	-43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-5	-2.769	-28	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-8	-0.9066	-10	-38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GSD-AP-MW-9	2.131	32	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-1	-0.1487	-26	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-10	-0.1092	-6	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-11	-0.3142	-17	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-12	-0.04639	-6	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-14 (bg)	0.1209	14	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-16 (bg)	-0.0039	-2	-43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GSD-AP-MW-17 (bg)**	**-0.9327**	**-57**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GSD-AP-MW-3**	**-0.7707**	**-65**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GSD-AP-MW-4	0.3842	24	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GSD-AP-MW-5**	**-0.6853**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GSD-AP-MW-6	-0.3626	-27	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-7	-0.5931	-27	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-8	0.253	14	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GSD-AP-MW-9	0.04339	2	38	No	12	0	n/a	n/a	0.01	NP
pH (pH)	**GSD-AP-MW-1**	**-0.3093**	**-59**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	**GSD-AP-MW-11**	**-0.1505**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GSD-AP-MW-14 (bg)	-0.01296	-9	-38	No	12	0	n/a	n/a	0.01	NP
pH (pH)	**GSD-AP-MW-16 (bg)**	**-0.9487**	**-47**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GSD-AP-MW-17 (bg)	0.4416	12	38	No	12	0	n/a	n/a	0.01	NP
pH (pH)	**GSD-AP-MW-8**	**-0.1389**	**-40**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GSD-AP-MW-9	-0.05554	-19	-43	No	13	0	n/a	n/a	0.01	NP
pH (pH)	**GSD-AP-PZ-5**	**-0.5093**	**-52**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (pH)	GSD-AP-PZ-6	-0.0561	-24	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-1	32.55	15	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GSD-AP-MW-11**	**43.04**	**46**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GSD-AP-MW-12	37.98	28	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-14 (bg)	-1.926	-1	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-16 (bg)	56.49	35	43	No	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-17 (bg)	-3.463	-38	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GSD-AP-MW-3	0.4195	3	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**GSD-AP-MW-1**	**-86.68**	**-43**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-11**	**39.67**	**40**	**38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GSD-AP-MW-12	32.8	13	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GSD-AP-MW-14 (bg)	6.761	2	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GSD-AP-MW-16 (bg)	39.73	30	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GSD-AP-MW-17 (bg)	-12.08	-19	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**GSD-AP-MW-2**	**-88.86**	**-42**	**-38**	**Yes**	**12**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**GSD-AP-MW-3**	**-68.08**	**-50**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sen's Slope Estimator

GSD-AP-MW-1



n = 12

Slope = -0.06304 units per year.

Mann-Kendall statistic = -37 critical = -38

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

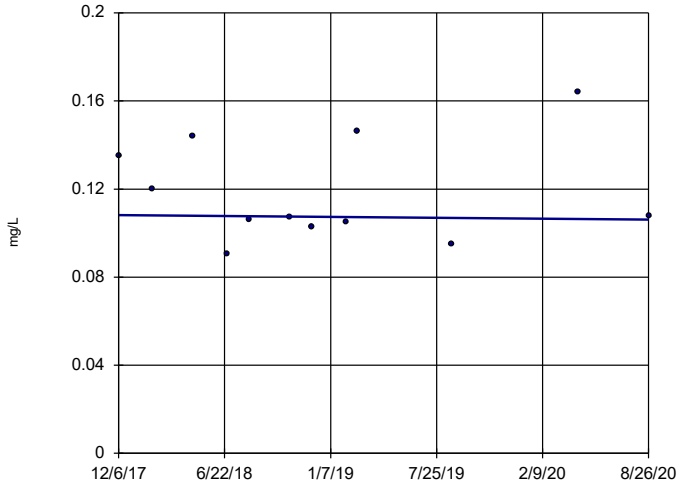
Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-10



n = 12

Slope = -0.0007265 units per year.

Mann-Kendall statistic = 0 critical = 38

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

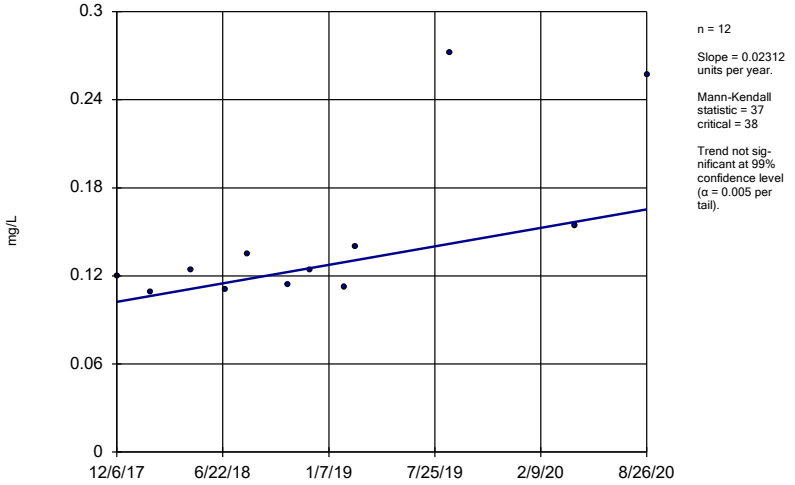
Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-11



n = 12

Slope = 0.02312 units per year.

Mann-Kendall statistic = 37 critical = 38

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

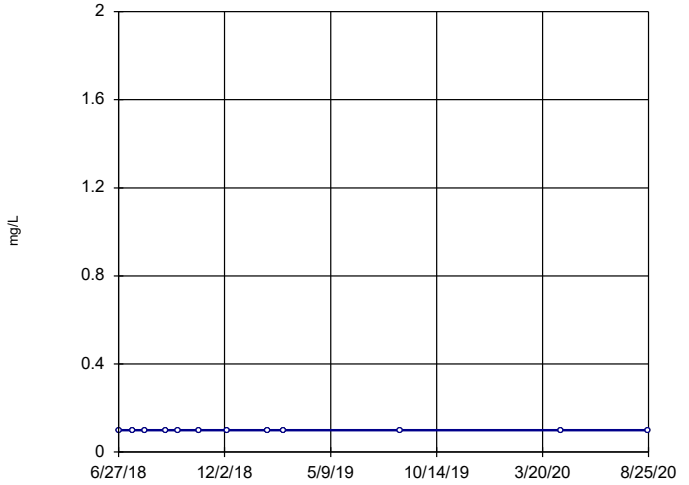
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GSD-AP-MW-14 (bg)



n = 12

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 38

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

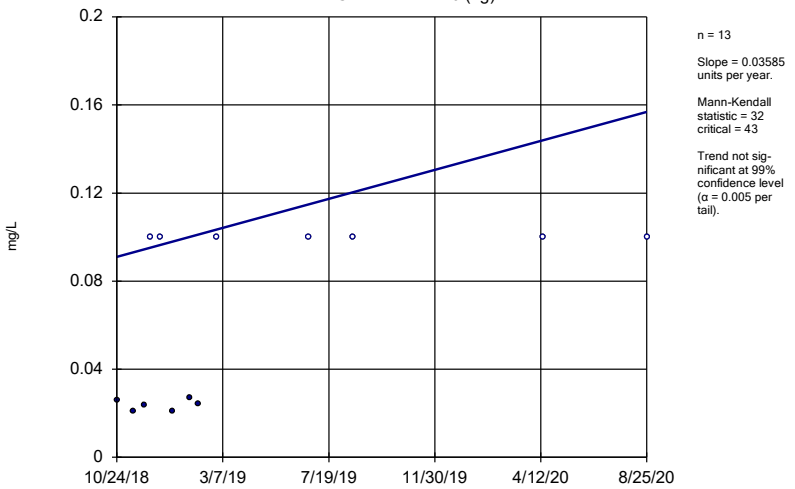
Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

GSD-AP-MW-16 (bg)



n = 13

Slope = 0.03585 units per year.

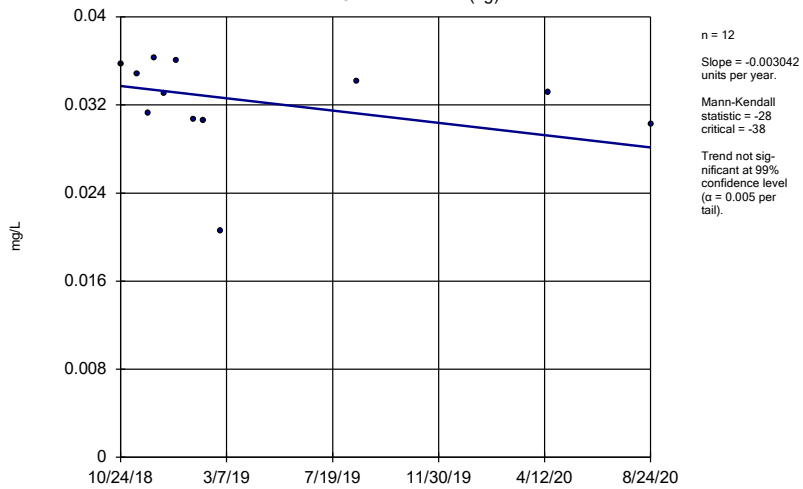
Mann-Kendall statistic = 32
critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-17 (bg)



n = 12

Slope = -0.003042 units per year.

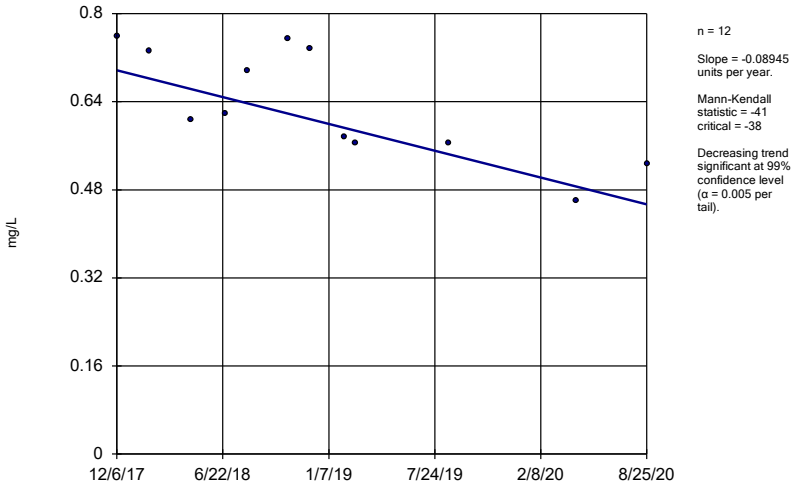
Mann-Kendall statistic = -28
critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-2



n = 12

Slope = -0.08945 units per year.

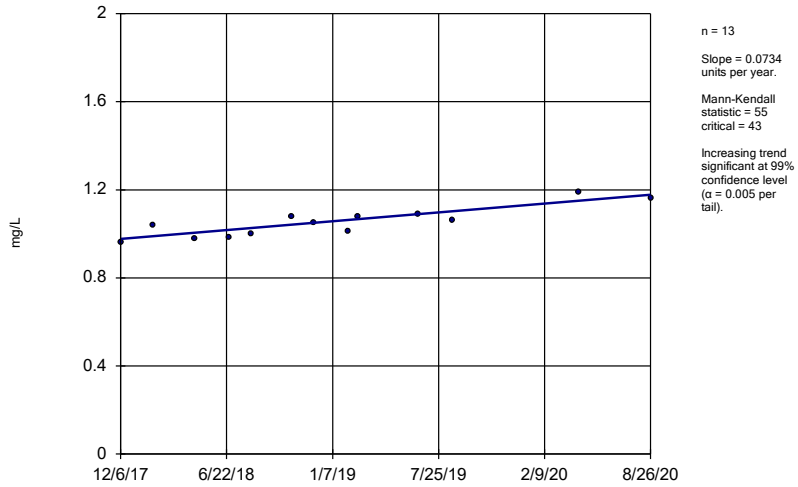
Mann-Kendall statistic = -41
critical = -38

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-3



n = 13

Slope = 0.0734 units per year.

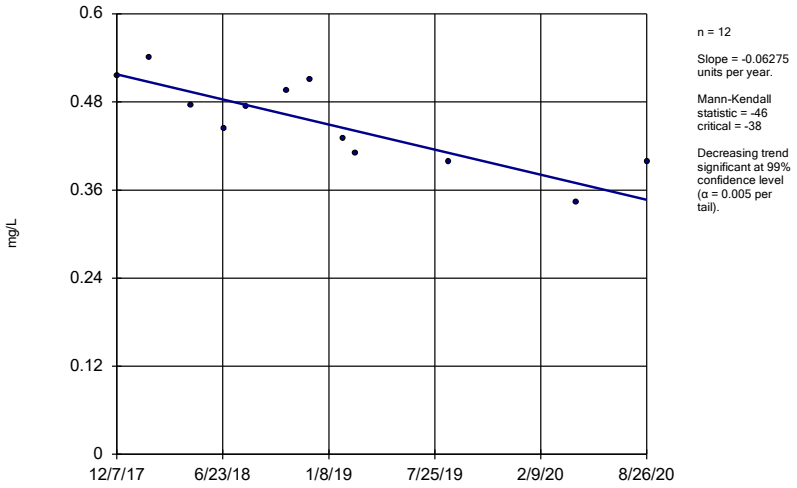
Mann-Kendall statistic = 55
critical = 43

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-4



n = 12

Slope = -0.06275 units per year.

Mann-Kendall statistic = -46
critical = -38

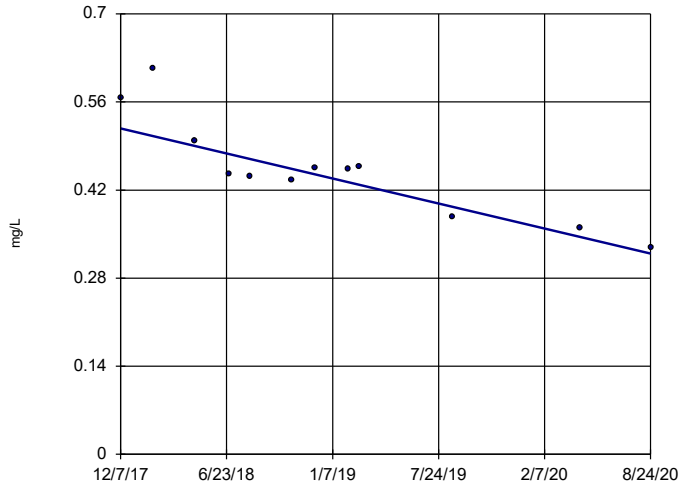
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-5



n = 12

Slope = -0.07311 units per year.

Mann-Kendall statistic = -42
critical = -38

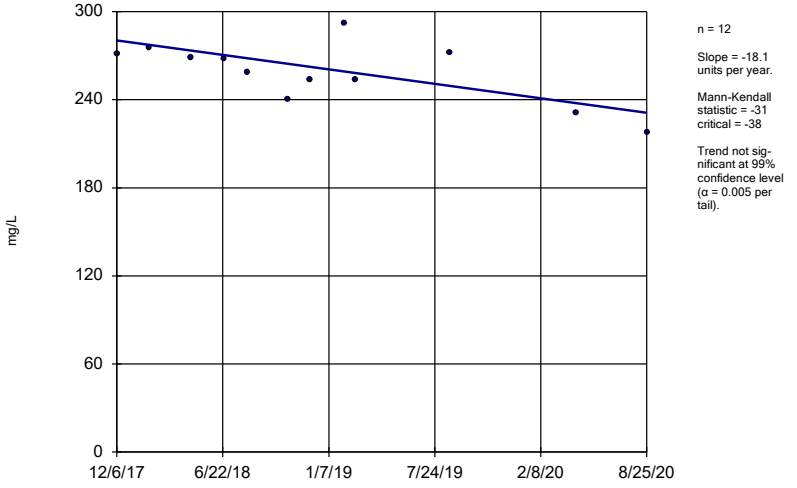
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-1



n = 12

Slope = -18.1 units per year.

Mann-Kendall statistic = -31
critical = -38

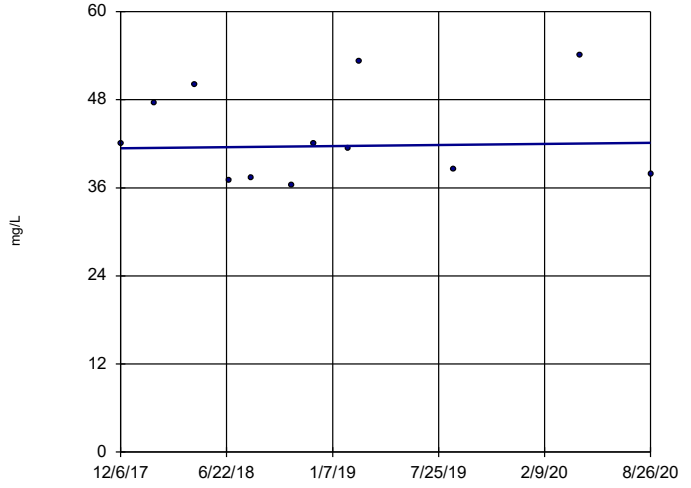
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-10



n = 12

Slope = 0.2588 units per year.

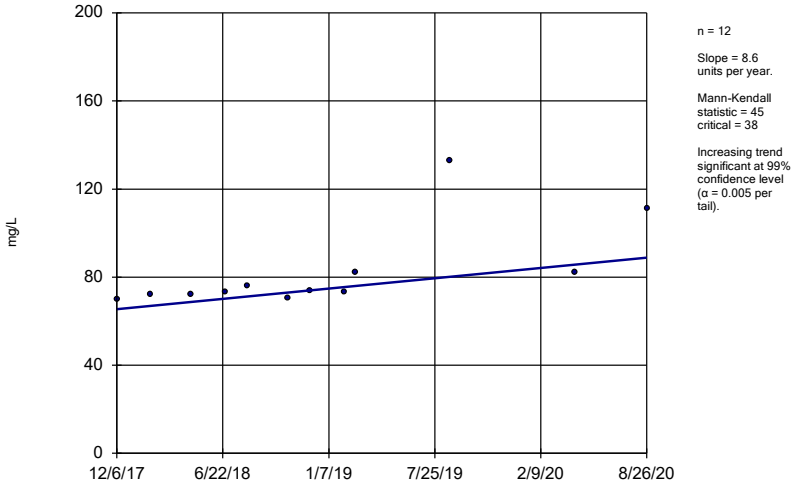
Mann-Kendall statistic = 4
critical = 38

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-11



n = 12

Slope = 8.6 units per year.

Mann-Kendall statistic = 45 critical = 38

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

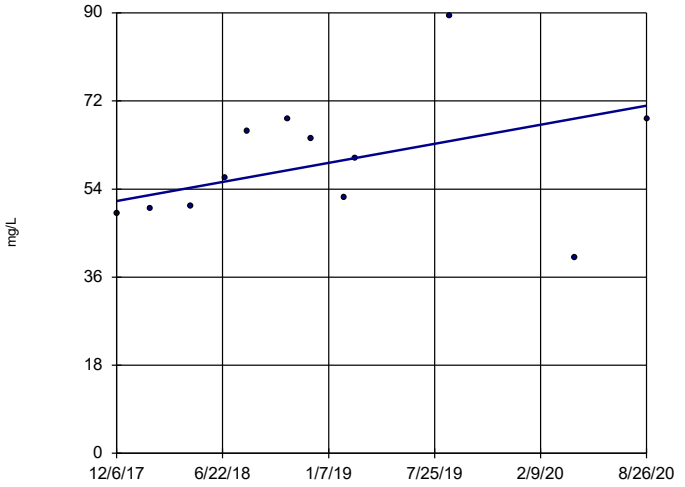
Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-12



n = 12

Slope = 7.173 units per year.

Mann-Kendall statistic = 26 critical = 38

Trend not significant at 99% confidence level (α = 0.005 per tail).

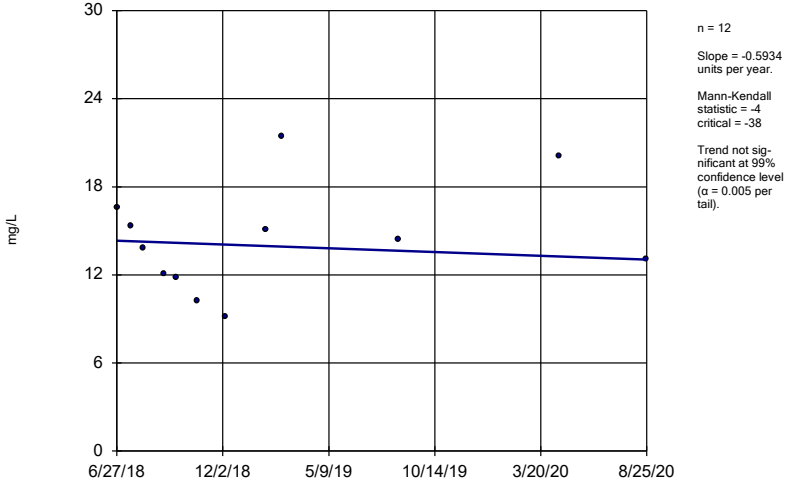
Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-14 (bg)



n = 12

Slope = -0.5934 units per year.

Mann-Kendall statistic = -4 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

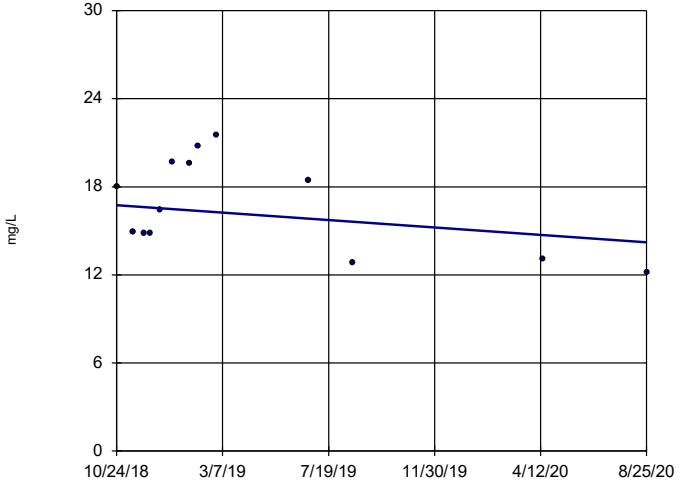
Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-16 (bg)



n = 13

Slope = -1.38 units per year.

Mann-Kendall statistic = -9 critical = -43

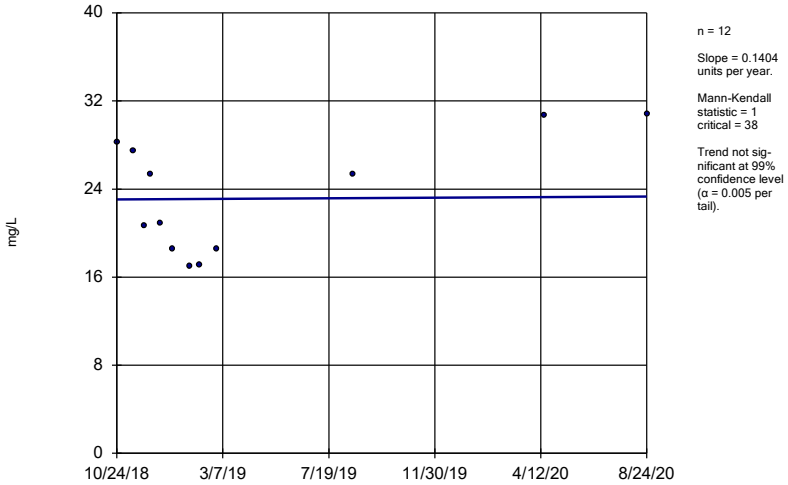
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-17 (bg)



n = 12

Slope = 0.1404 units per year.

Mann-Kendall statistic = 1 critical = 38

Trend not significant at 99% confidence level (α = 0.005 per tail).

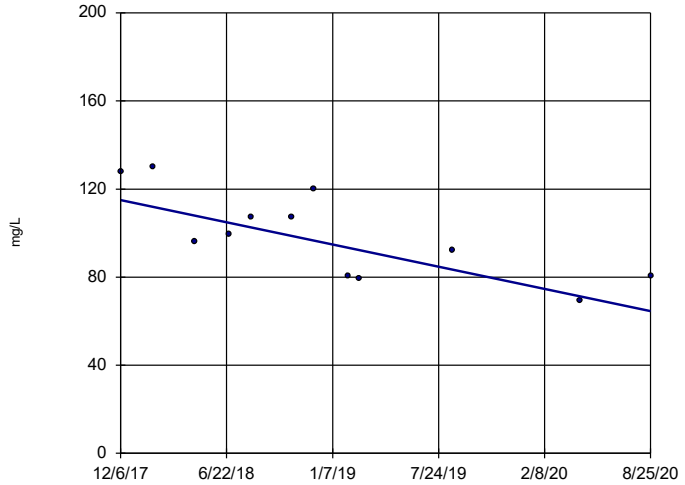
Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-2



n = 12

Slope = -18.51 units per year.

Mann-Kendall statistic = -37 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

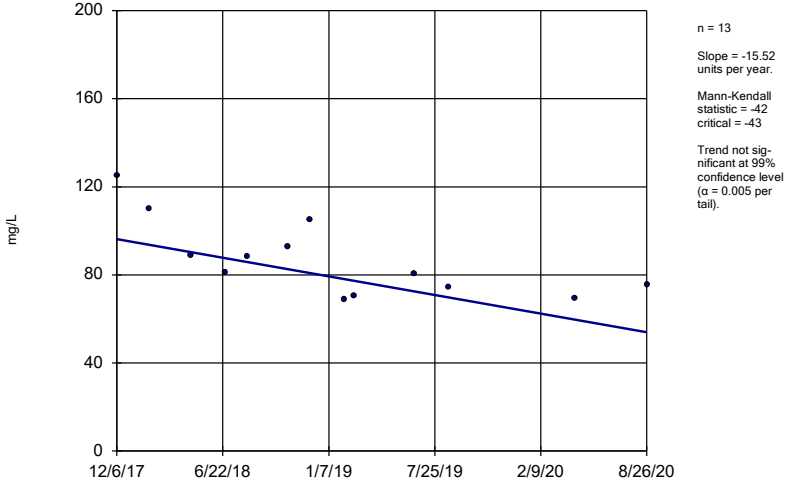
Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-3



n = 13

Slope = -15.52 units per year.

Mann-Kendall statistic = -42 critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

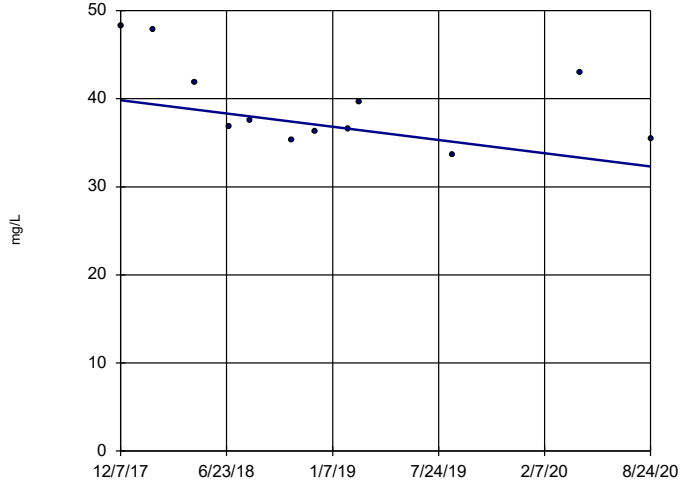
Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-5



n = 12

Slope = -2.769 units per year.

Mann-Kendall statistic = -28 critical = -38

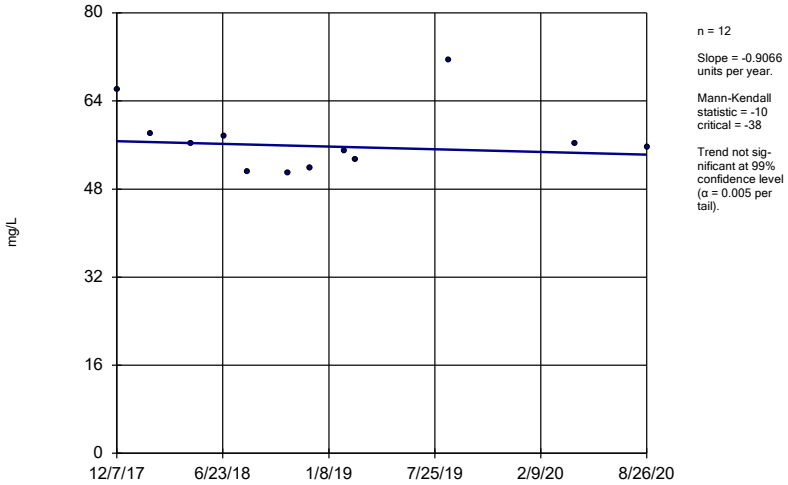
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-8



n = 12

Slope = -0.9066 units per year.

Mann-Kendall statistic = -10
critical = -38

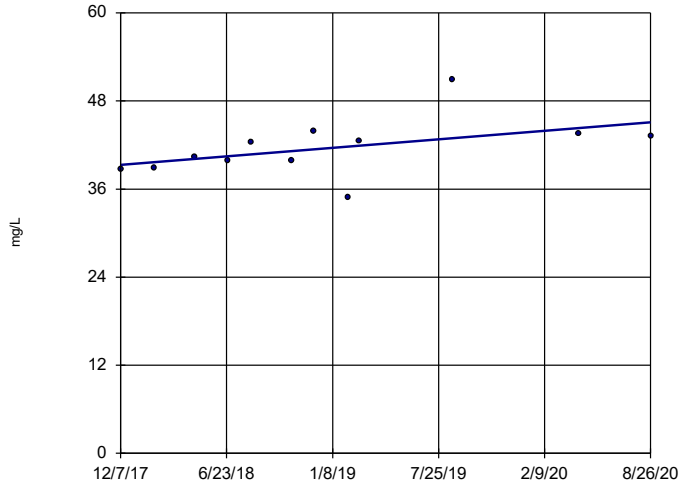
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-9



n = 12

Slope = 2.131 units per year.

Mann-Kendall statistic = 32
critical = 38

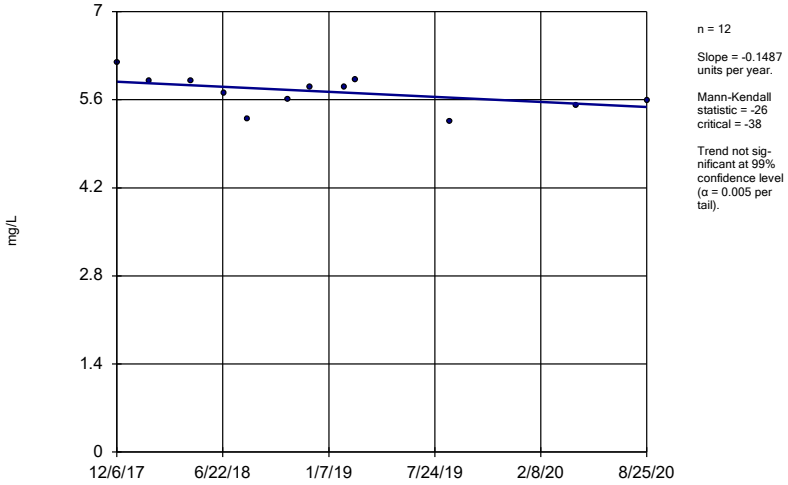
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/5/2020 12:58 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-1



n = 12

Slope = -0.1487 units per year.

Mann-Kendall statistic = -26
critical = -38

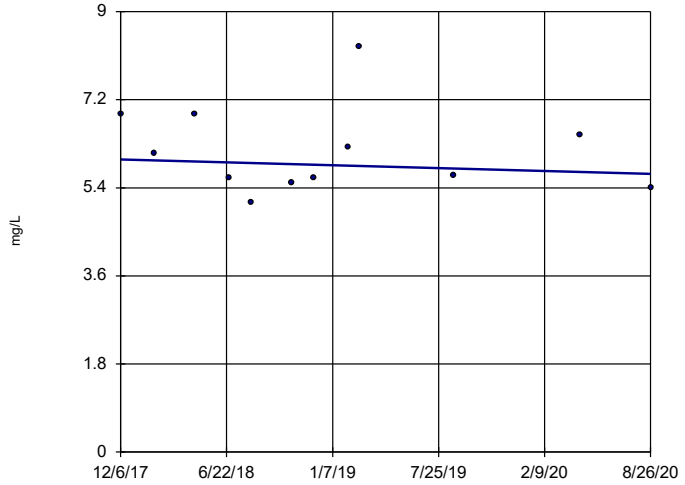
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-10



n = 12

Slope = -0.1092 units per year.

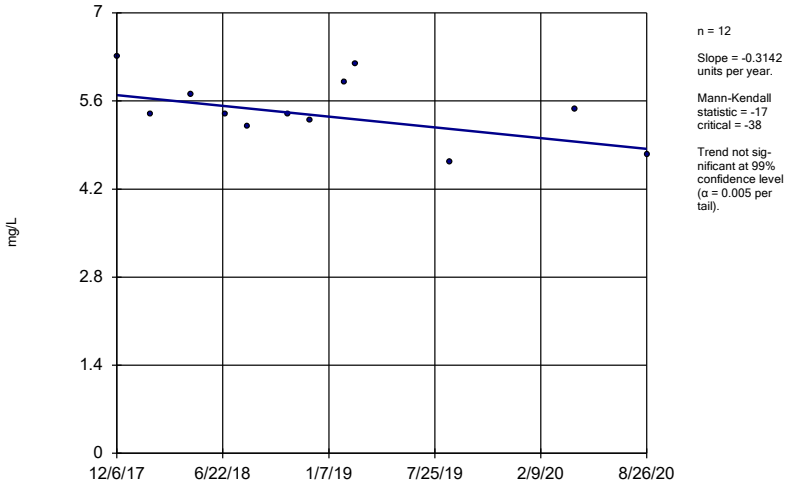
Mann-Kendall statistic = -6
critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-11



n = 12

Slope = -0.3142 units per year.

Mann-Kendall statistic = -17
critical = -38

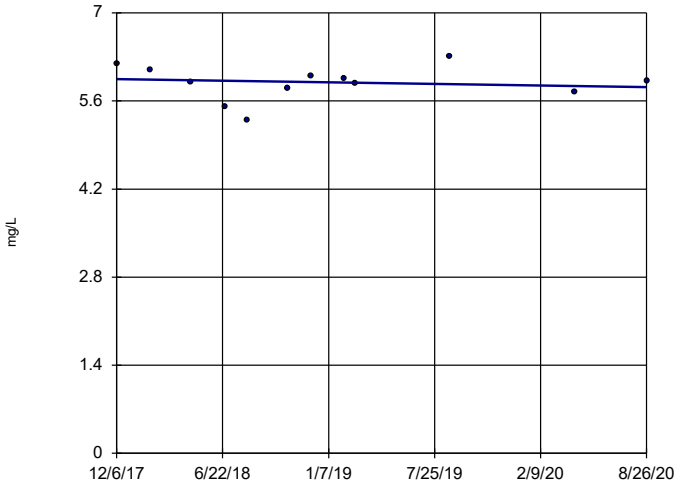
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-12



n = 12

Slope = -0.04639 units per year.

Mann-Kendall statistic = -6
critical = -38

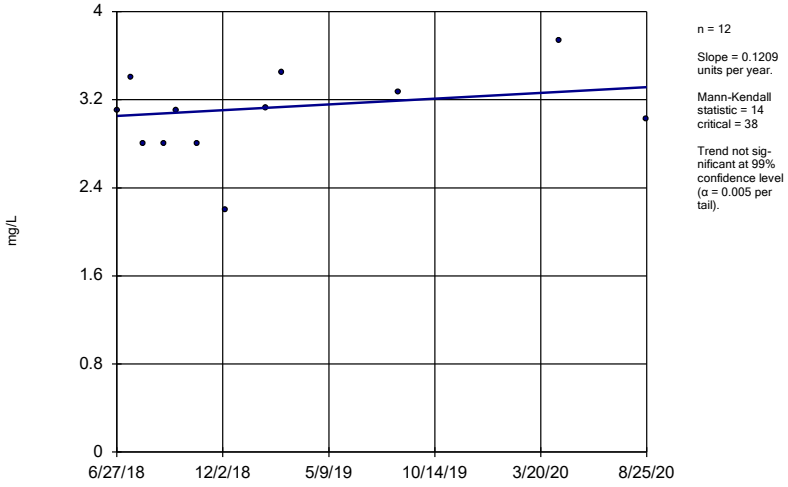
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-14 (bg)



n = 12

Slope = 0.1209 units per year.

Mann-Kendall statistic = 14
critical = 38

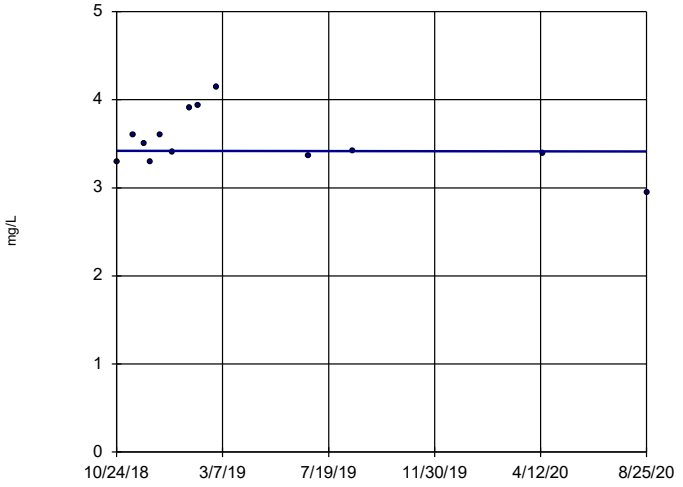
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-16 (bg)



n = 13

Slope = -0.0039 units per year.

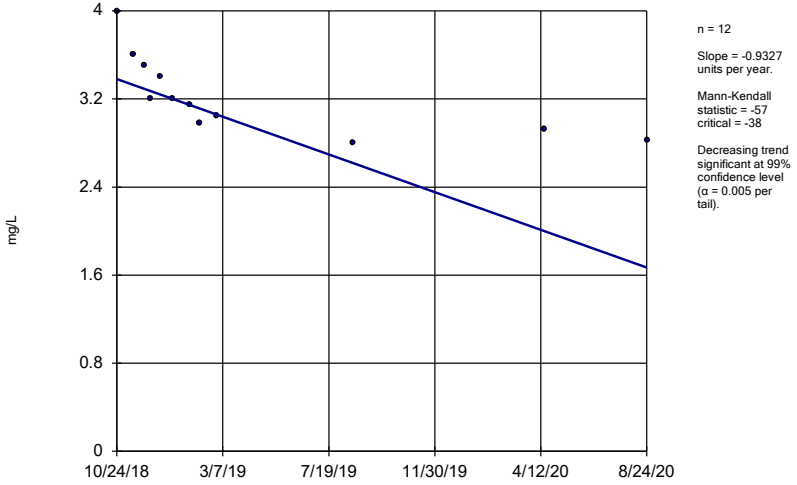
Mann-Kendall statistic = -2
critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-17 (bg)



n = 12

Slope = -0.9327 units per year.

Mann-Kendall statistic = -57 critical = -38

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

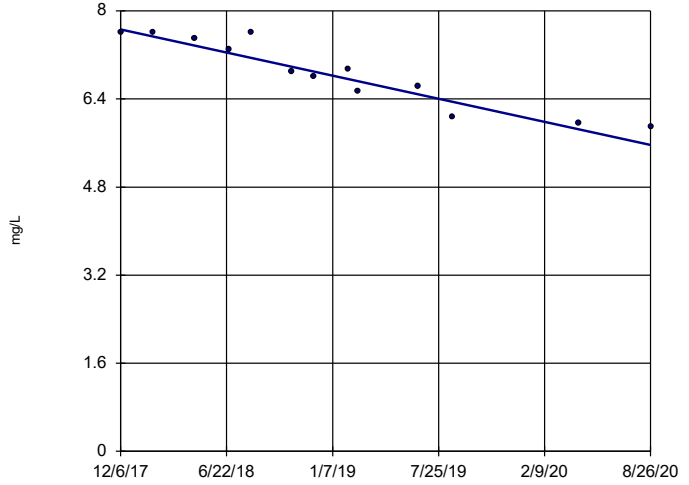
Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-3



n = 13

Slope = -0.7707 units per year.

Mann-Kendall statistic = -65 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

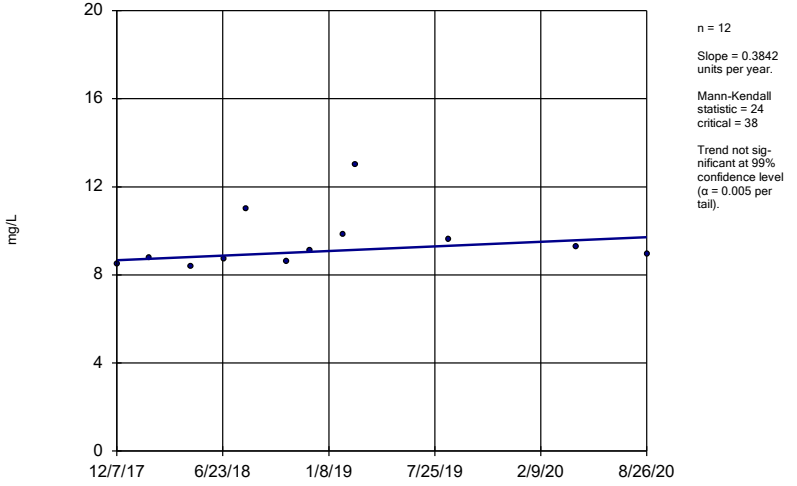
Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-4



n = 12

Slope = 0.3842 units per year.

Mann-Kendall statistic = 24 critical = 38

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

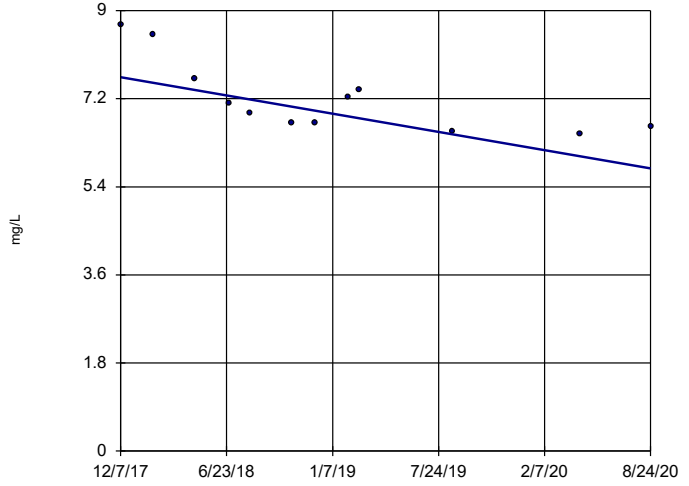
Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-5



n = 12

Slope = -0.6853 units per year.

Mann-Kendall statistic = -43 critical = -38

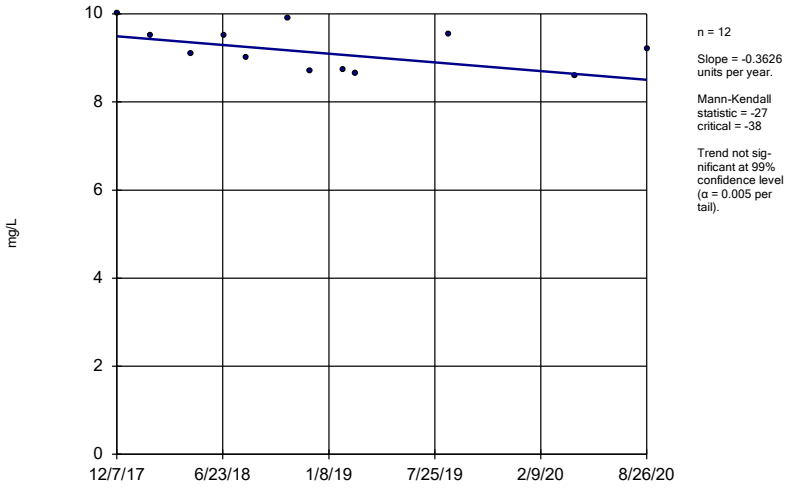
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-6



n = 12

Slope = -0.3626 units per year.

Mann-Kendall statistic = -27 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

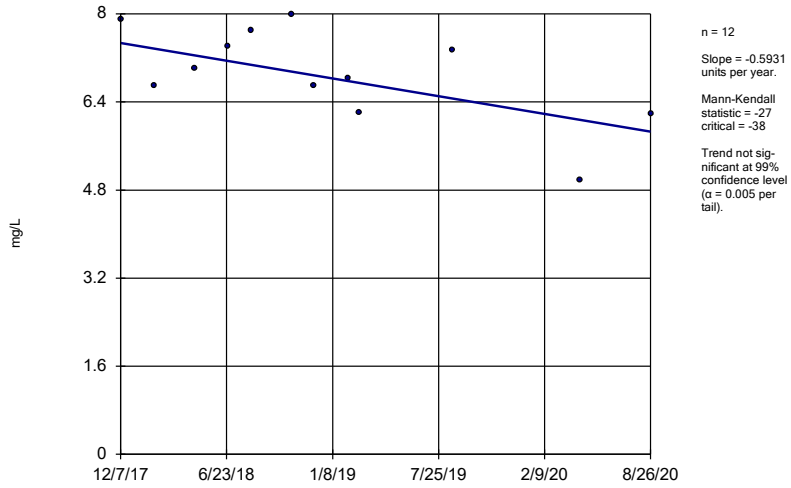
Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-7



n = 12

Slope = -0.5931 units per year.

Mann-Kendall statistic = -27 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

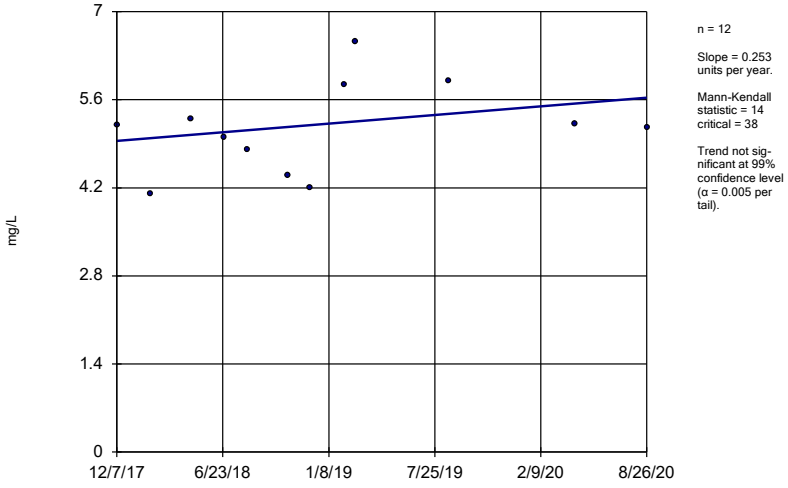
Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-8



n = 12

Slope = 0.253 units per year.

Mann-Kendall statistic = 14 critical = 38

Trend not significant at 99% confidence level (α = 0.005 per tail).

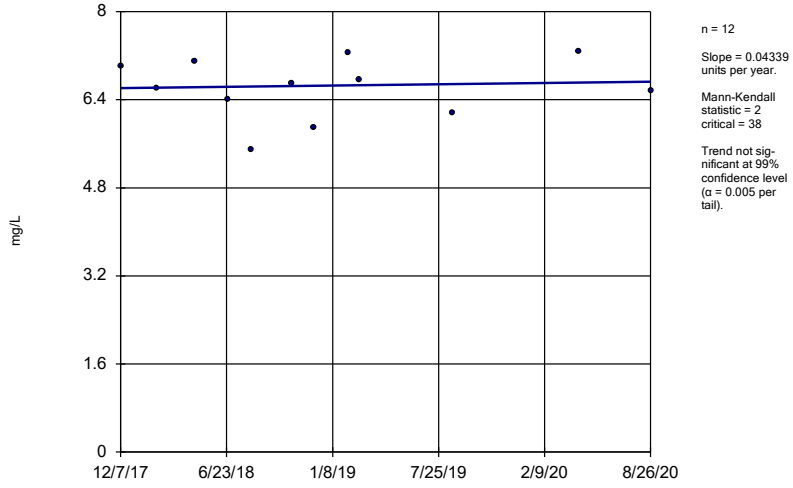
Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-9



n = 12

Slope = 0.04339 units per year.

Mann-Kendall statistic = 2 critical = 38

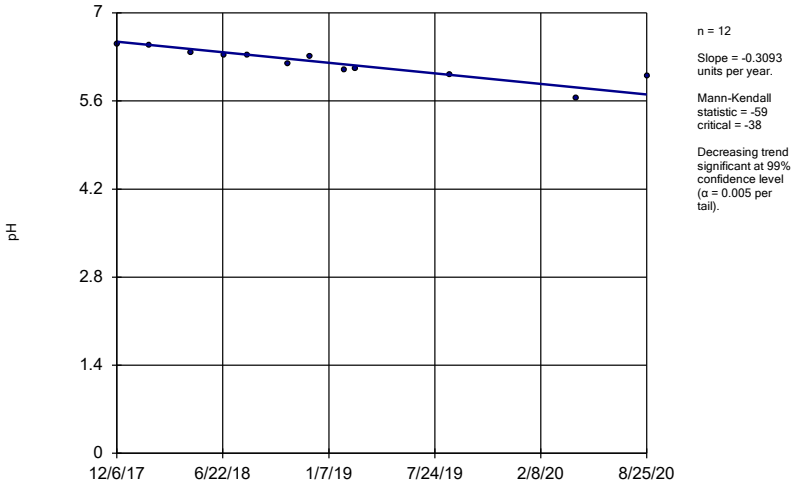
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-1



n = 12

Slope = -0.3093 units per year.

Mann-Kendall statistic = -59 critical = -38

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

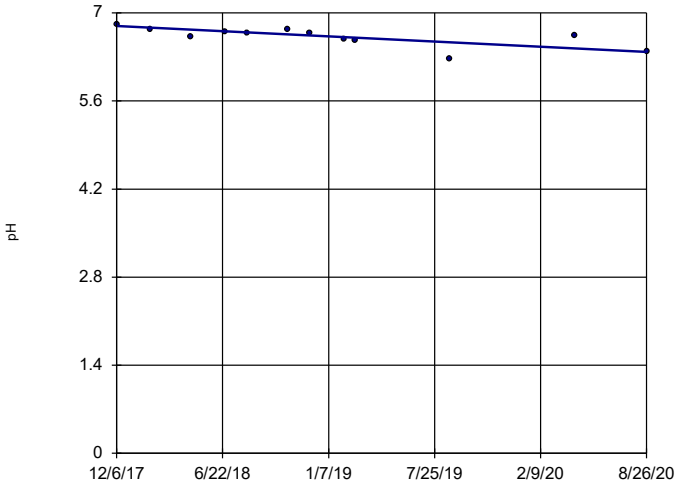
Constituent: pH Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-11



n = 12

Slope = -0.1505 units per year.

Mann-Kendall statistic = -43 critical = -38

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

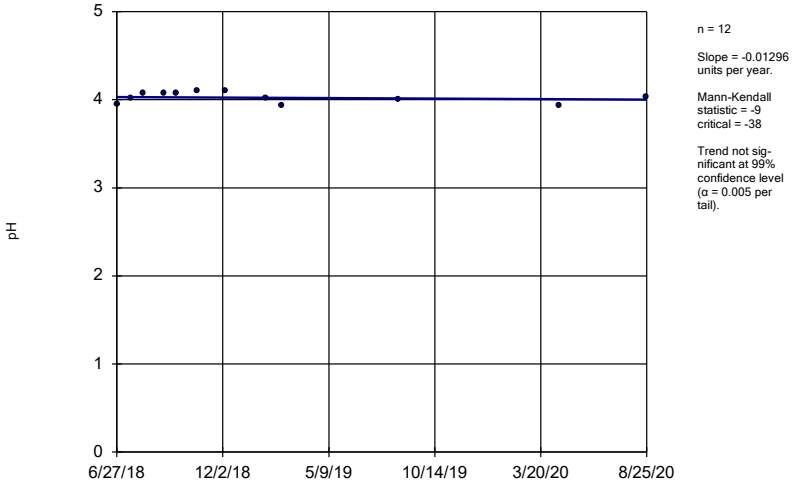
Constituent: pH Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-14 (bg)



n = 12

Slope = -0.01296 units per year.

Mann-Kendall statistic = -9 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

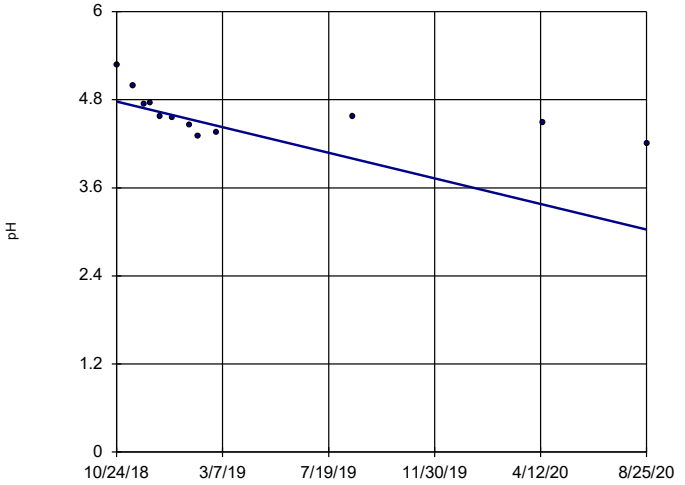
Constituent: pH Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-16 (bg)



n = 12

Slope = -0.9487 units per year.

Mann-Kendall statistic = -47 critical = -38

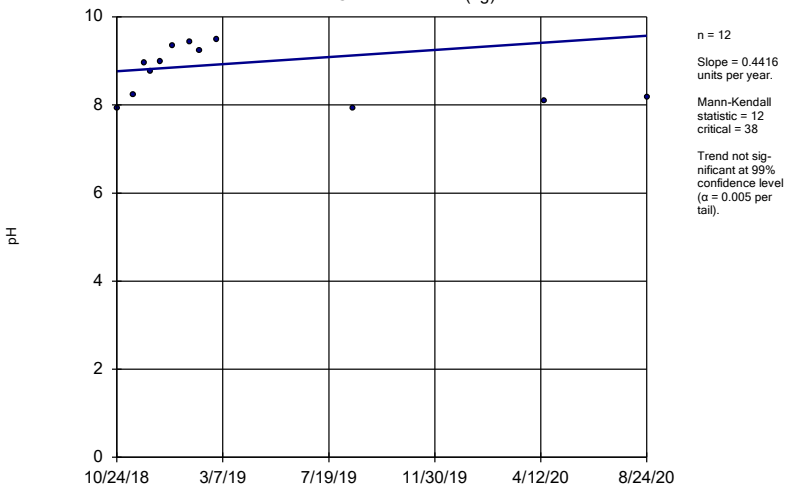
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-17 (bg)



n = 12

Slope = 0.4416 units per year.

Mann-Kendall statistic = 12
critical = 38

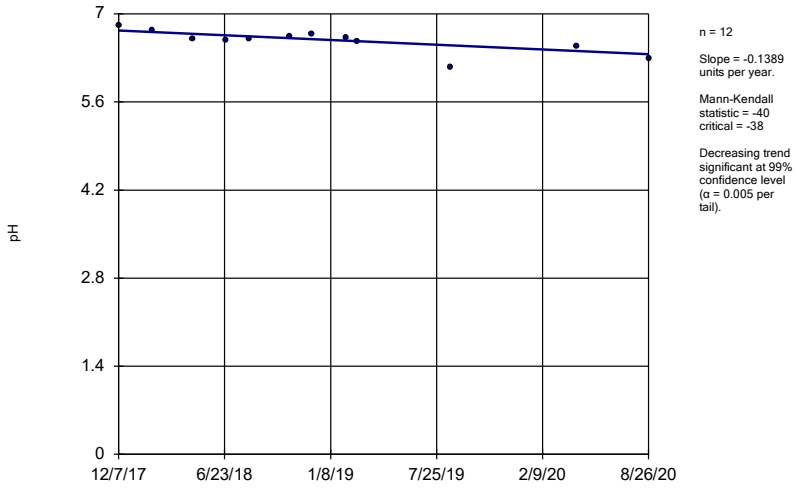
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-8



n = 12

Slope = -0.1389 units per year.

Mann-Kendall statistic = -40
critical = -38

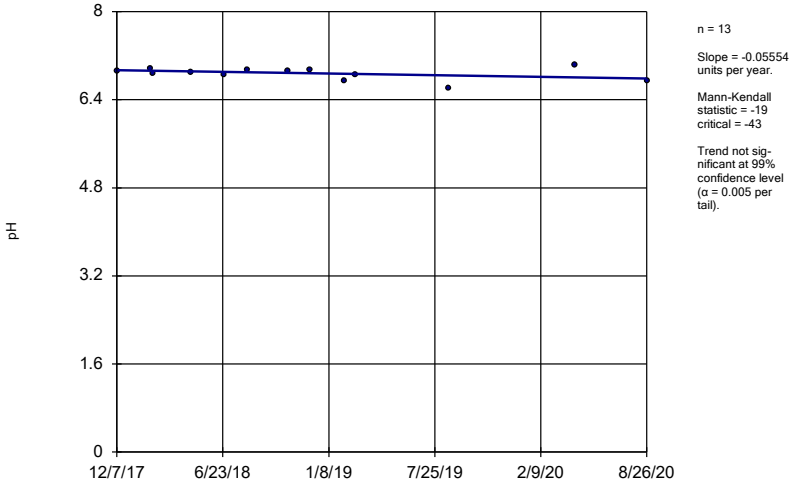
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-9



n = 13

Slope = -0.05554 units per year.

Mann-Kendall statistic = -19
critical = -43

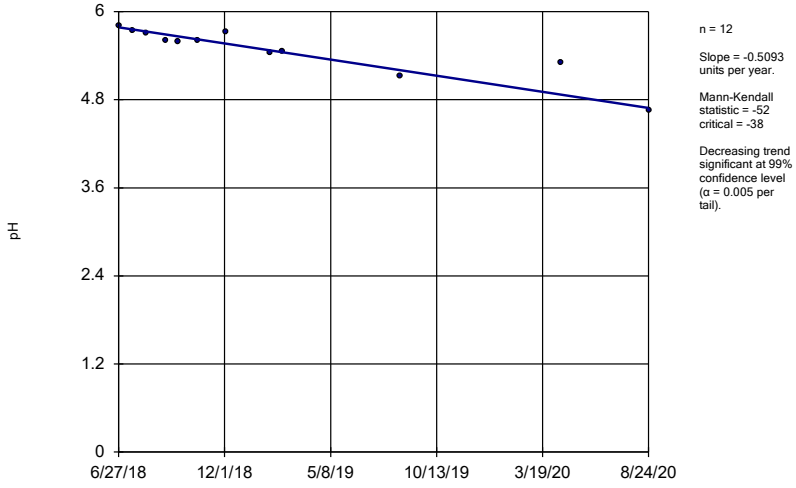
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-PZ-5



n = 12

Slope = -0.5093 units per year.

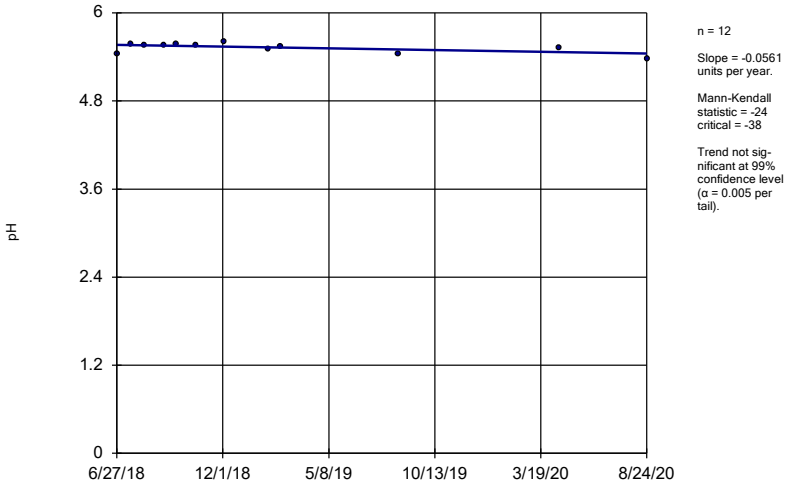
Mann-Kendall statistic = -52
critical = -38

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-PZ-6



n = 12

Slope = -0.0561 units per year.

Mann-Kendall statistic = -24 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

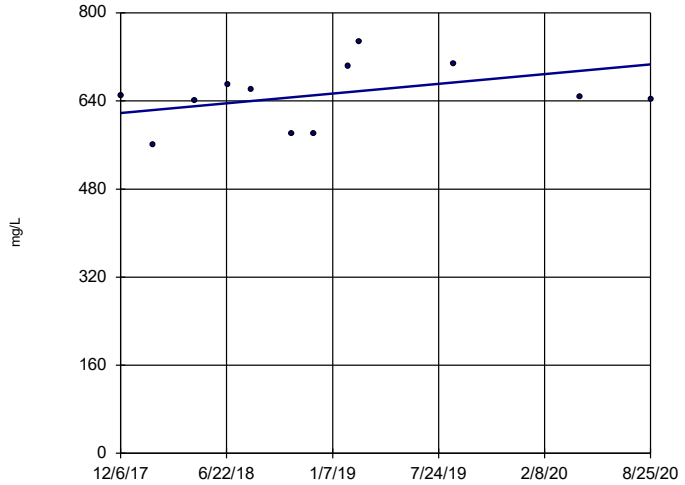
Constituent: pH Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-1



n = 12

Slope = 32.55 units per year.

Mann-Kendall statistic = 15 critical = 38

Trend not significant at 99% confidence level (α = 0.005 per tail).

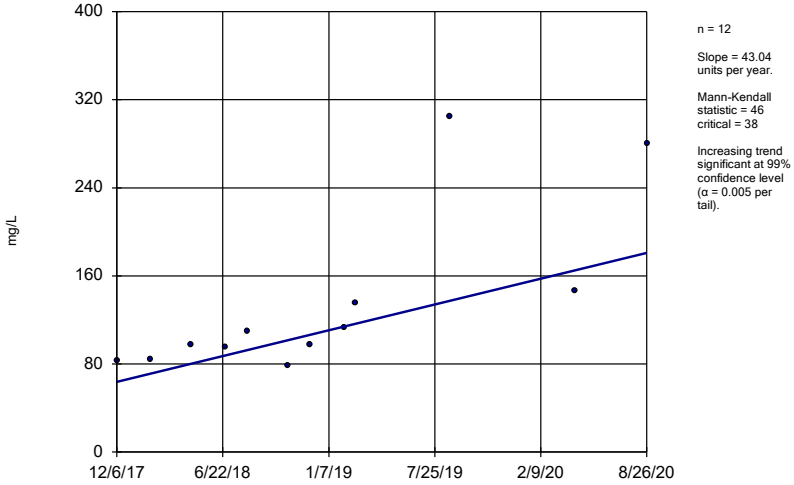
Constituent: Sulfate Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-11



n = 12

Slope = 43.04 units per year.

Mann-Kendall statistic = 46 critical = 38

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

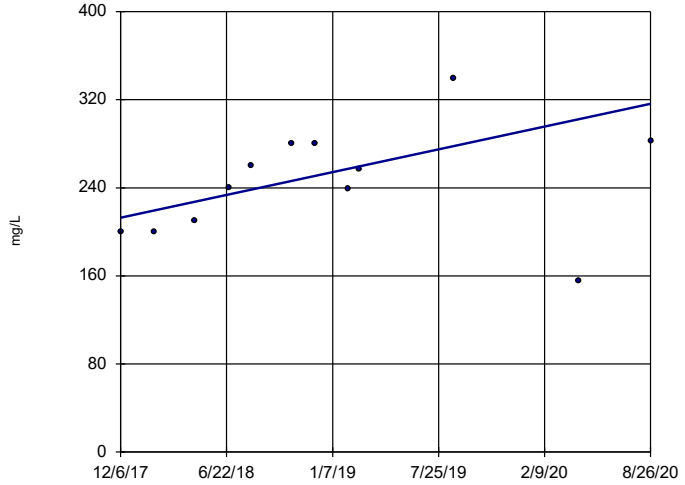
Constituent: Sulfate Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-12



n = 12

Slope = 37.98 units per year.

Mann-Kendall statistic = 28 critical = 38

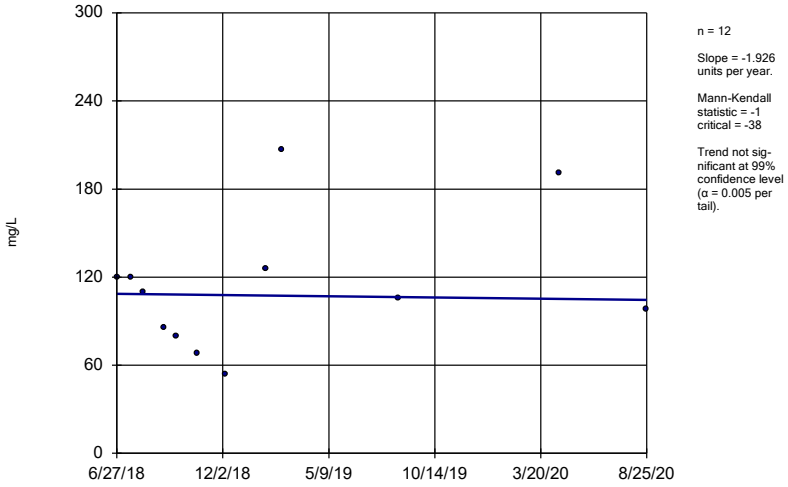
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-14 (bg)



n = 12

Slope = -1.926 units per year.

Mann-Kendall statistic = -1 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

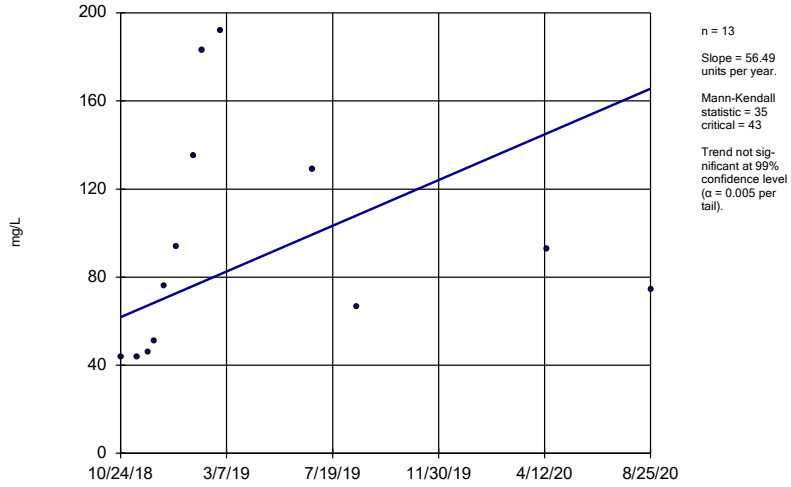
Constituent: Sulfate Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-16 (bg)



n = 13

Slope = 56.49 units per year.

Mann-Kendall statistic = 35 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

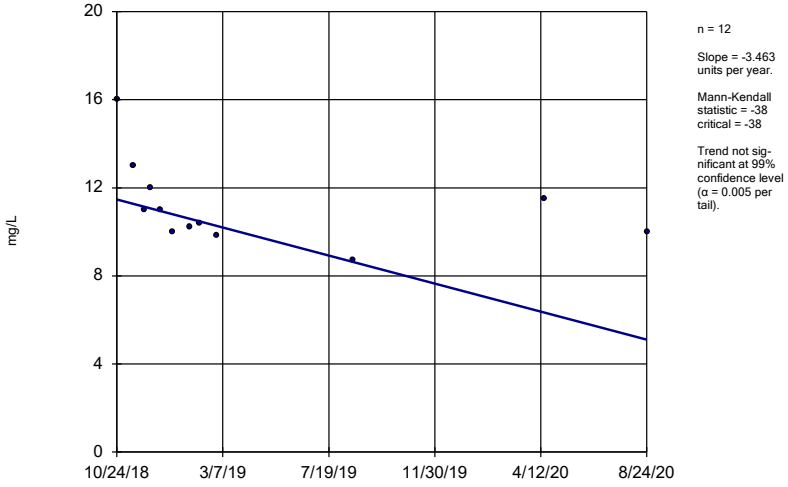
Constituent: Sulfate Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-17 (bg)



n = 12

Slope = -3.463 units per year.

Mann-Kendall statistic = -38 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

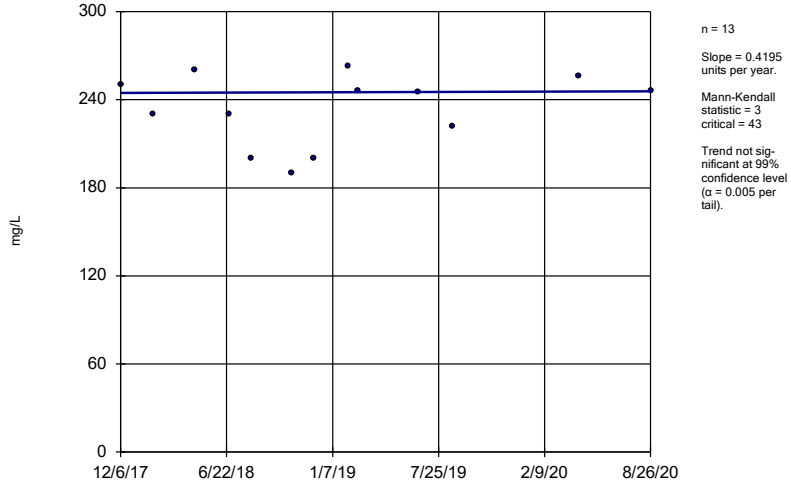
Constituent: Sulfate Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-3



n = 13

Slope = 0.4195 units per year.

Mann-Kendall statistic = 3 critical = 43

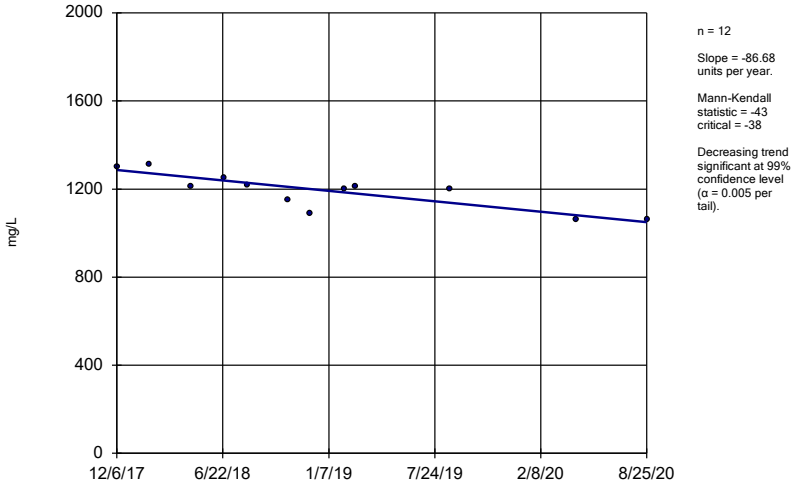
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-1



n = 12

Slope = -86.68 units per year.

Mann-Kendall statistic = -43 critical = -38

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

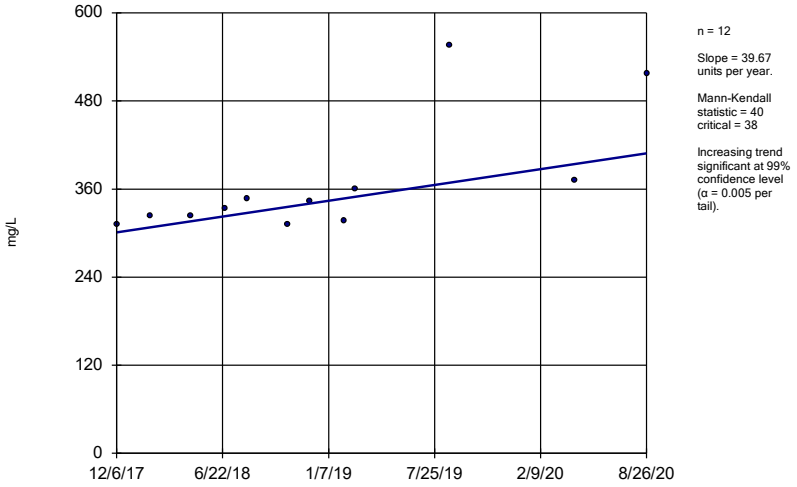
Constituent: Total Dissolved Solids Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-11



n = 12

Slope = 39.67 units per year.

Mann-Kendall statistic = 40 critical = 38

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

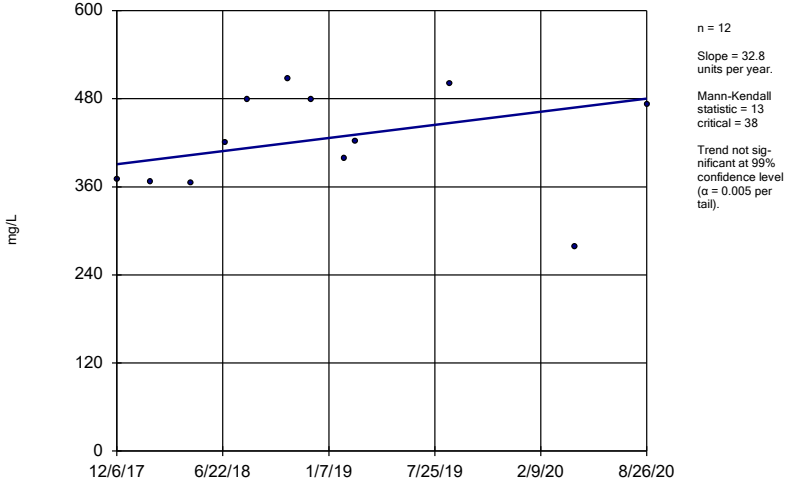
Constituent: Total Dissolved Solids Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-12



n = 12

Slope = 32.8 units per year.

Mann-Kendall statistic = 13 critical = 38

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

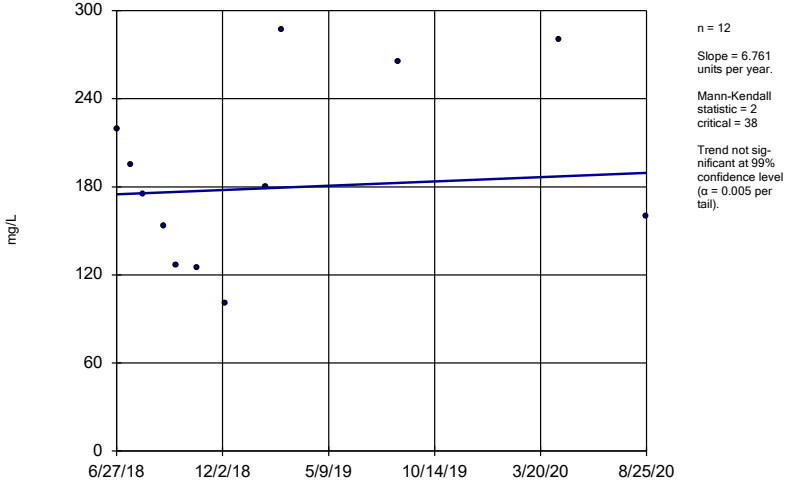
Constituent: Total Dissolved Solids Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-14 (bg)



n = 12

Slope = 6.761 units per year.

Mann-Kendall statistic = 2 critical = 38

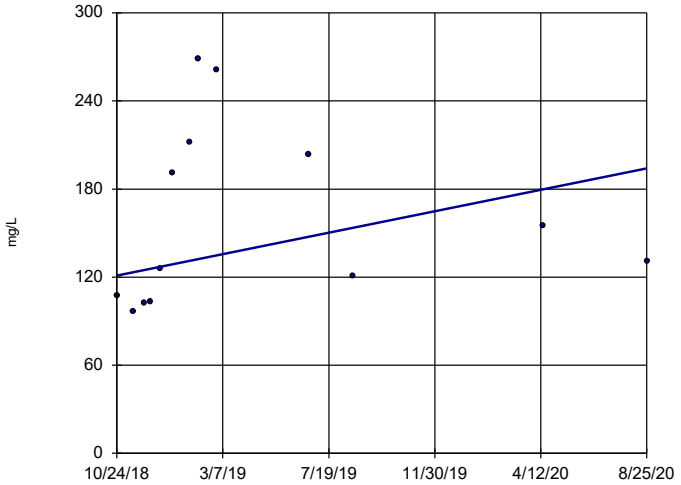
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sen's Slope Estimator

GSD-AP-MW-16 (bg)



n = 13

Slope = 39.73 units per year.

Mann-Kendall statistic = 30 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

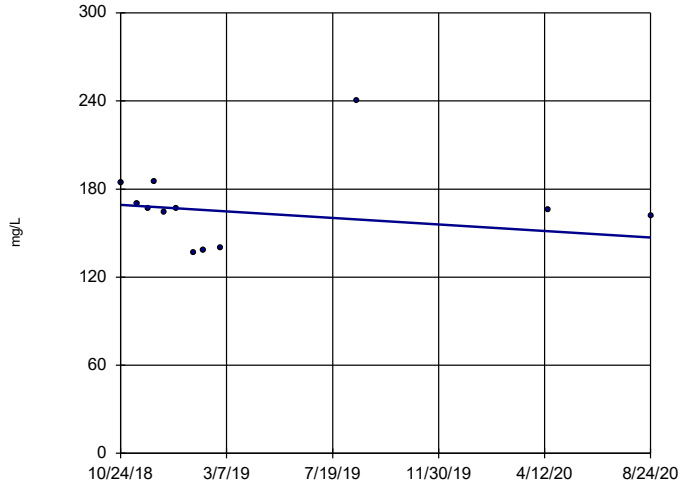
Constituent: Total Dissolved Solids Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-17 (bg)



n = 12

Slope = -12.08 units per year.

Mann-Kendall statistic = -19 critical = -38

Trend not significant at 99% confidence level (α = 0.005 per tail).

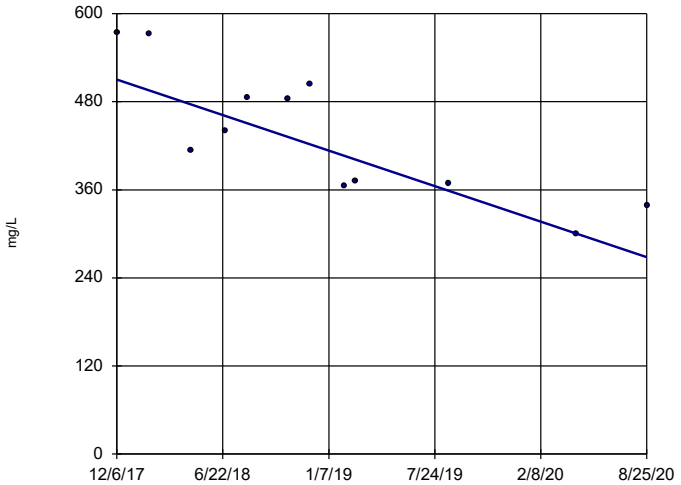
Constituent: Total Dissolved Solids Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-2



n = 12

Slope = -88.86 units per year.

Mann-Kendall statistic = -42 critical = -38

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

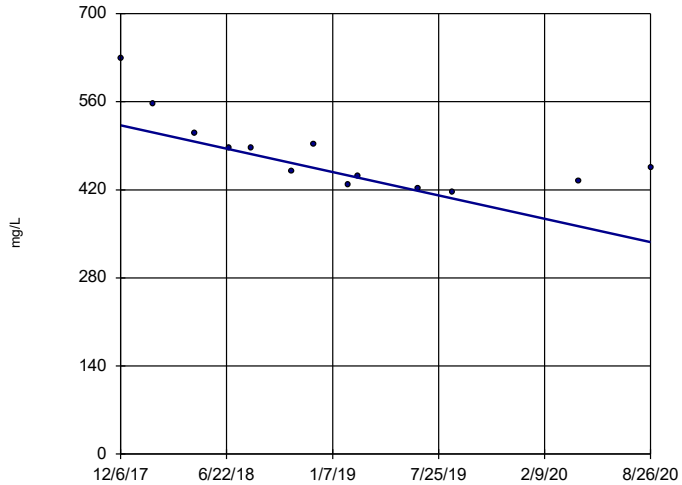
Constituent: Total Dissolved Solids Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GSD-AP-MW-3



n = 13

Slope = -68.08 units per year.

Mann-Kendall statistic = -50 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/5/2020 12:59 PM View: Appendix III - Trend Tests

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

FIGURE G.

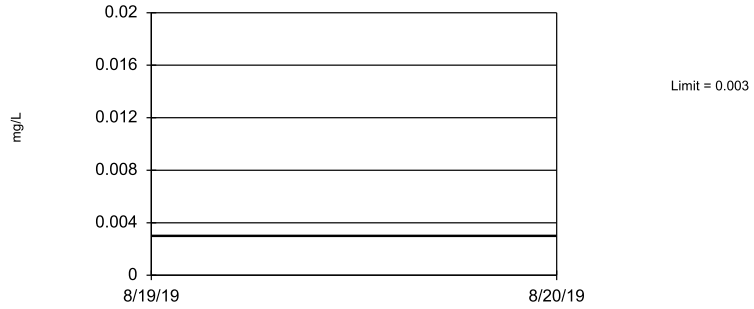
Upper Tolerance Limits - Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 7/23/2020, 2:34 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	28	n/a	n/a	96.43	n/a	n/a	0.2378	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	28	n/a	n/a	53.57	n/a	n/a	0.2378	NP Inter(NDs)
Barium (mg/L)	0.259	n/a	28	n/a	n/a	0	n/a	n/a	0.2378	NP Inter(normal...
Beryllium (mg/L)	0.003	n/a	28	n/a	n/a	46.43	n/a	n/a	0.2378	NP Inter(normal...
Cadmium (mg/L)	0.00101	n/a	28	n/a	n/a	32.14	n/a	n/a	0.2378	NP Inter(normal...
Chromium (mg/L)	0.01	n/a	28	n/a	n/a	96.43	n/a	n/a	0.2378	NP Inter(NDs)
Cobalt (mg/L)	0.0538	n/a	28	n/a	n/a	32.14	n/a	n/a	0.2378	NP Inter(normal...
Combined Radium 226 + 228 (pCi/L)	1.213	n/a	21	0.5662	0.2728	0	None	No	0.05	Inter
Fluoride (mg/L)	0.23	n/a	31	n/a	n/a	25.81	n/a	n/a	0.2039	NP Inter(normal...
Lead (mg/L)	0.005	n/a	28	n/a	n/a	53.57	n/a	n/a	0.2378	NP Inter(NDs)
Lithium (mg/L)	0.02	n/a	28	n/a	n/a	78.57	n/a	n/a	0.2378	NP Inter(NDs)
Mercury (mg/L)	0.000664	n/a	27	n/a	n/a	62.96	n/a	n/a	0.2503	NP Inter(NDs)
Molybdenum (mg/L)	0.01	n/a	28	n/a	n/a	71.43	n/a	n/a	0.2378	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	28	n/a	n/a	64.29	n/a	n/a	0.2378	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	28	n/a	n/a	100	n/a	n/a	0.2378	NP Inter(NDs)

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 28 background values. 96.43% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Antimony Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Tolerance Limit

Interwell Non-parametric

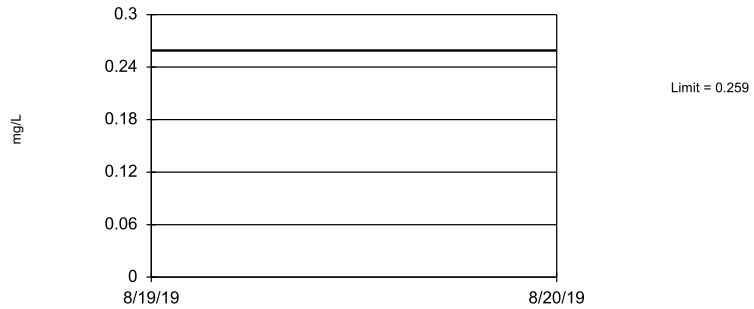
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 28 background values. 53.57% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Arsenic Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Tolerance Limit

Interwell Non-parametric



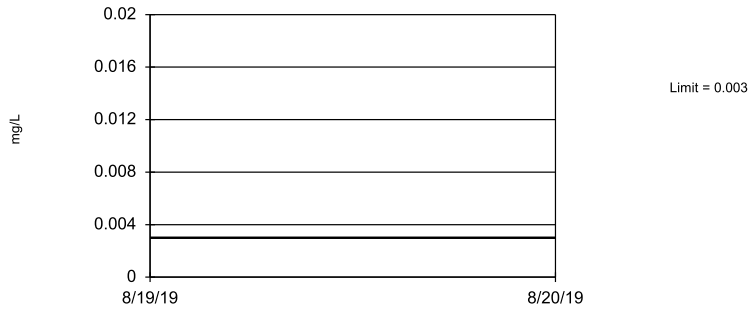
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 28 background values. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Barium Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Tolerance Limit

Interwell Non-parametric



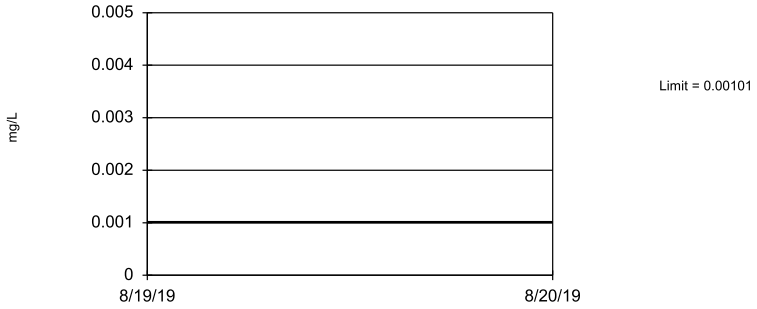
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 28 background values. 46.43% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Beryllium Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 28 background values. 32.14% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Cadmium Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 28 background values. 96.43% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Chromium Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 28 background values. 32.14% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Cobalt Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Tolerance Limit

Interwell Parametric

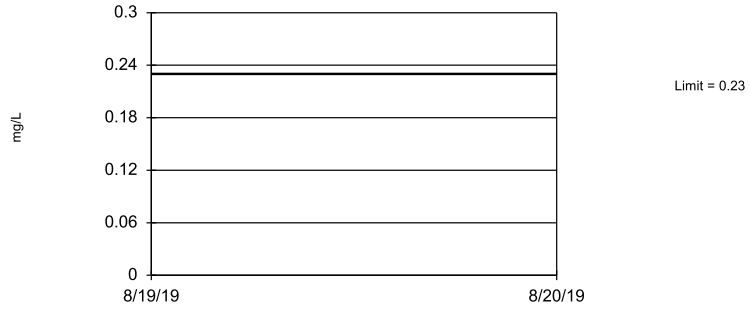
95% coverage. Background Data Summary: Mean=0.5662, Std. Dev.=0.2728, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9803, critical = 0.873. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 31 background values. 25.81% NDs. 86.13% coverage at alpha=0.01; 90.82% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.2039.

Constituent: Fluoride Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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 50%. Limit is highest of 28 background values. 53.57% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Lead Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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 50%. Limit is highest of 28 background values. 78.57% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

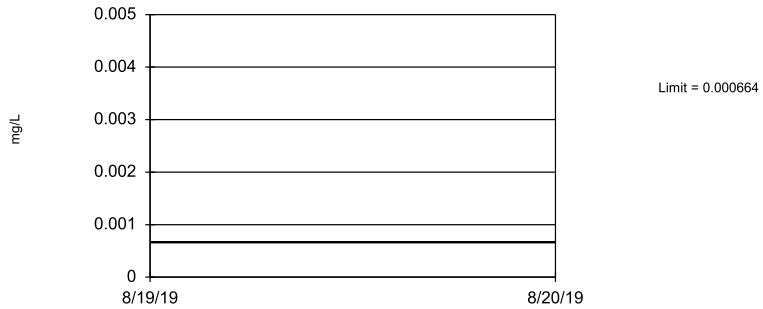
Constituent: Lithium Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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 50%. Limit is highest of 27 background values. 62.96% NDs. 84.18% coverage at alpha=0.01; 89.65% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2503.

Constituent: Mercury Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 28 background values. 71.43% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Molybdenum Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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 50%. Limit is highest of 28 background values. 64.29% NDs. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

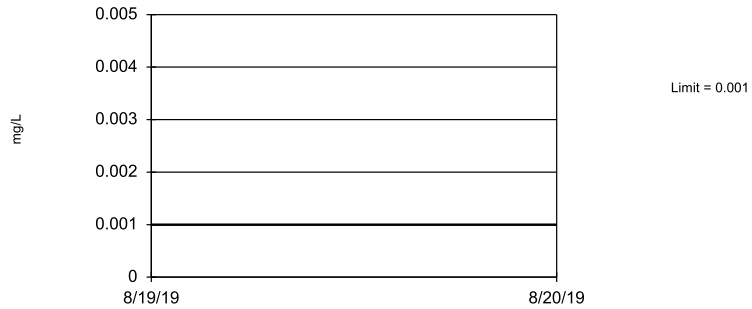
Constituent: Selenium Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

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 50%. All background values were censored; limit is most recent reporting limit. 84.96% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2378.

Constituent: Thallium Analysis Run 7/23/2020 2:33 PM View: UTL's-Appendix IV

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

FIGURE H.

GADSDEN ASH POND GWPS			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.003	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.259	2
Beryllium	mg/L	0.003	0.004
Cadmium	mg/L	0.00101	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0538	0.056
Combined Radium-226/228	pCi/L	1.213	5
Fluoride	mg/L	0.23	4
Lead	mg/L	0.005	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.000664	0.002
Molybdenum	mg/L	0.01	0.1
Selenium	mg/L	0.01	0.05
Thallium	mg/L	0.001	0.002

Notes:

1. mg/L - Milligrams per liter

2. pCi/L - Picocuries per liter

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

4. GWPS established during second semi-annual sampling event in 2019.

FIGURE I.

Confidence Intervals - Significant Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GSD-AP-MW-2**	**0.999**	**0.6415**	**0.01**	**Yes**	**8**	**0.8203**	**0.1687**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GSD-AP-MW-4**	**0.01413**	**0.01155**	**0.01**	**Yes**	**8**	**0.01284**	**0.001219**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**GSD-AP-MW-2**	**0.07593**	**0.04207**	**0.04**	**Yes**	**8**	**0.059**	**0.01597**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GSD-AP-PZ-5	0.003	0.00114	0.006	No	8	0.002768	0.0006576	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	GSD-AP-PZ-6	0.003	0.00181	0.006	No	8	0.002851	0.0004207	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	GSD-AP-MW-1	0.004617	0.003175	0.01	No	8	0.003896	0.0006801	0	None	No	0.01	Param.
Arsenic (mg/L)	GSD-AP-MW-10	0.004293	0.00297	0.01	No	8	0.003631	0.000624	0	None	No	0.01	Param.
Arsenic (mg/L)	GSD-AP-MW-11	0.002907	0.002456	0.01	No	8	0.002681	0.0002126	0	None	No	0.01	Param.
Arsenic (mg/L)	**GSD-AP-MW-2**	**0.999**	**0.6415**	**0.01**	**Yes**	**8**	**0.8203**	**0.1687**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**GSD-AP-MW-4**	**0.01413**	**0.01155**	**0.01**	**Yes**	**8**	**0.01284**	**0.001219**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	GSD-AP-MW-8	0.003289	0.002381	0.01	No	8	0.002835	0.0004281	0	None	No	0.01	Param.
Arsenic (mg/L)	GSD-AP-MW-9	0.0025	0.00111	0.01	No	8	0.002161	0.0006275	75	None	No	0.004	NP (NDs)
Barium (mg/L)	GSD-AP-MW-1	0.04573	0.03522	2	No	8	0.04048	0.004953	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-10	0.3321	0.2657	2	No	8	0.2989	0.03134	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-11	0.3356	0.1919	2	No	8	0.265	0.07173	0	None	x^2	0.01	Param.
Barium (mg/L)	GSD-AP-MW-12	0.05326	0.03534	2	No	8	0.0443	0.008451	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-2	0.07199	0.04779	2	No	8	0.05989	0.01141	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-3	0.0545	0.0349	2	No	8	0.04208	0.007995	0	None	No	0.004	NP (normality)
Barium (mg/L)	GSD-AP-MW-4	0.2105	0.1697	2	No	8	0.1901	0.01926	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-5	0.2541	0.2214	2	No	8	0.2378	0.01547	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-6	0.07195	0.05493	2	No	8	0.06344	0.008027	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-7	0.09052	0.06963	2	No	8	0.08008	0.009854	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-8	0.2419	0.1559	2	No	8	0.1989	0.04055	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-MW-9	0.198	0.1492	2	No	8	0.1736	0.02303	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-PZ-1	0.1158	0.05981	2	No	8	0.0878	0.02641	0	None	No	0.01	Param.
Barium (mg/L)	GSD-AP-PZ-5	0.126	0.0535	2	No	8	0.09265	0.03253	0	None	No	0.004	NP (normality)
Barium (mg/L)	GSD-AP-PZ-6	0.03098	0.02862	2	No	8	0.0298	0.00111	0	None	No	0.01	Param.
Cadmium (mg/L)	GSD-AP-MW-12	0.0007255	0.0005028	0.005	No	8	0.0006141	0.0001051	0	None	No	0.01	Param.
Cadmium (mg/L)	GSD-AP-MW-3	0.001	0.000438	0.005	No	8	0.0009298	0.0001987	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	GSD-AP-PZ-5	0.001	0.001	0.005	No	8	0.001	0	100	None	No	0.004	NP (NDs)
Chromium (mg/L)	GSD-AP-MW-3	0.01	0.00285	0.1	No	8	0.009106	0.002528	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GSD-AP-MW-1	0.02502	0.01755	0.056	No	8	0.02129	0.003525	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-11	0.00756	0.005	0.056	No	8	0.005444	0.0009226	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	GSD-AP-MW-12	0.005756	0.002799	0.056	No	8	0.004278	0.001395	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-2	0.03999	0.02836	0.056	No	8	0.03418	0.005484	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-3	0.02752	0.0203	0.056	No	8	0.02391	0.003408	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-4	0.02748	0.02185	0.056	No	8	0.02466	0.002658	0	None	No	0.01	Param.
Cobalt (mg/L)	GSD-AP-MW-5	0.005	0.0021	0.056	No	8	0.00292	0.001286	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	GSD-AP-MW-8	0.005	0.00232	0.056	No	8	0.004135	0.001046	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	GSD-AP-PZ-5	0.005	0.00202	0.056	No	8	0.003942	0.001461	62.5	None	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-1	0.7862	0.2778	5	No	8	0.532	0.2398	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-10	0.6589	0.1703	5	No	8	0.4146	0.2305	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-11	1.372	0.7495	5	No	8	1.061	0.2938	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-12	1.011	0.08069	5	No	8	0.546	0.439	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-2	1.106	0.2261	5	No	8	0.6659	0.4149	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-3	0.8898	0.3042	5	No	8	0.597	0.2763	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-4	1.019	0.1972	5	No	8	0.6082	0.3878	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-5	1.111	0.3764	5	No	8	0.7439	0.3467	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-6	0.4122	0.04962	5	No	8	0.2309	0.171	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-7	0.6933	0.1217	5	No	8	0.4075	0.2696	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-8	0.6999	0.3066	5	No	8	0.5033	0.1855	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-MW-9	1.146	0.1227	5	No	8	0.6343	0.4826	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-PZ-1	0.7253	0.06347	5	No	8	0.3944	0.3122	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-PZ-5	0.6882	0.2333	5	No	8	0.4608	0.2146	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GSD-AP-PZ-6	0.5057	-0.03386	5	No	8	0.2359	0.2545	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-1	0.1	0.04	4	No	8	0.07906	0.02435	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GSD-AP-MW-10	0.1118	0.06175	4	No	8	0.08675	0.02359	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-11	0.1	0.06	4	No	8	0.08426	0.01854	37.5	None	No	0.004	NP (normality)

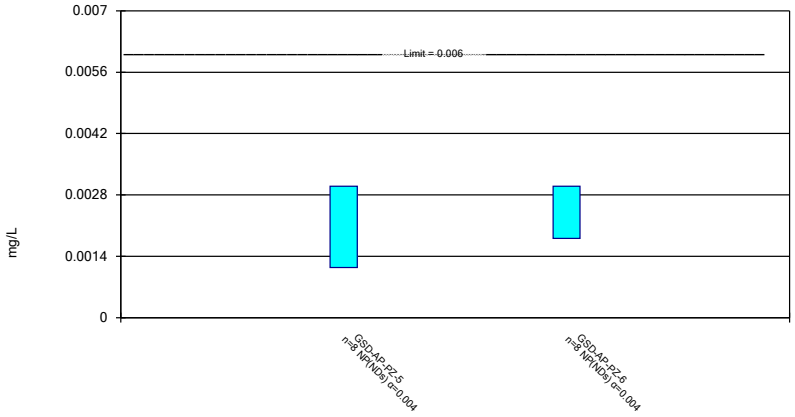
Confidence Intervals - All Results

Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR Printed 11/4/2020, 2:32 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GSD-AP-MW-12	0.1	0.04	4	No	8	0.0925	0.02121	87.5	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GSD-AP-MW-2	0.2715	0.1875	4	No	8	0.2295	0.03967	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-3	0.08951	0.05594	4	No	8	0.08495	0.01992	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-4	0.2553	0.2124	4	No	8	0.2339	0.02025	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-5	0.06986	0.04992	4	No	8	0.05989	0.009408	0	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-6	0.1	0.05	4	No	8	0.08121	0.02194	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	GSD-AP-MW-7	0.1	0.06	4	No	8	0.08599	0.01634	25	None	No	0.004	NP (normality)
Fluoride (mg/L)	GSD-AP-MW-8	0.1079	0.07227	4	No	8	0.09006	0.01678	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-MW-9	0.1423	0.08335	4	No	8	0.1123	0.03357	12.5	None	x^2	0.01	Param.
Fluoride (mg/L)	GSD-AP-PZ-1	0.1245	0.08537	4	No	8	0.1049	0.01843	12.5	None	No	0.01	Param.
Fluoride (mg/L)	GSD-AP-PZ-5	0.1	0.04	4	No	8	0.085	0.02777	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	GSD-AP-PZ-6	0.1	0.04	4	No	8	0.085	0.02777	75	None	No	0.004	NP (NDs)
Lithium (mg/L)	**GSD-AP-MW-2**	**0.07593**	**0.04207**	**0.04**	**Yes**	**8**	**0.059**	**0.01597**	**0**	**None**	**No**	**0.01**	**Param.**
Mercury (mg/L)	GSD-AP-MW-10	0.0005	0.000302	0.002	No	8	0.0004753	0.00007	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	GSD-AP-MW-7	0.0005	0.00034	0.002	No	8	0.00048	0.00005657	87.5	None	No	0.004	NP (NDs)
Mercury (mg/L)	GSD-AP-MW-8	0.0005	0.000284	0.002	No	8	0.000473	0.00007637	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	GSD-AP-MW-2	0.0282	0.0159	0.1	No	8	0.02205	0.005798	0	None	No	0.01	Param.
Thallium (mg/L)	GSD-AP-MW-2	0.001	0.000213	0.002	No	8	0.000557	0.0003692	37.5	None	No	0.004	NP (normality)

Non-Parametric Confidence Interval

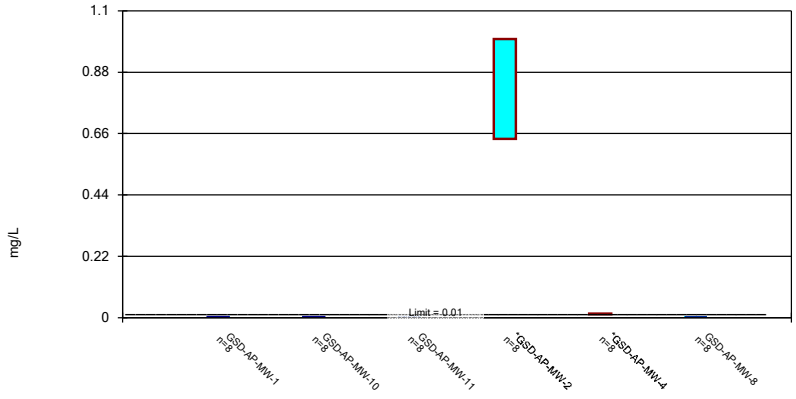
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Parametric Confidence Interval

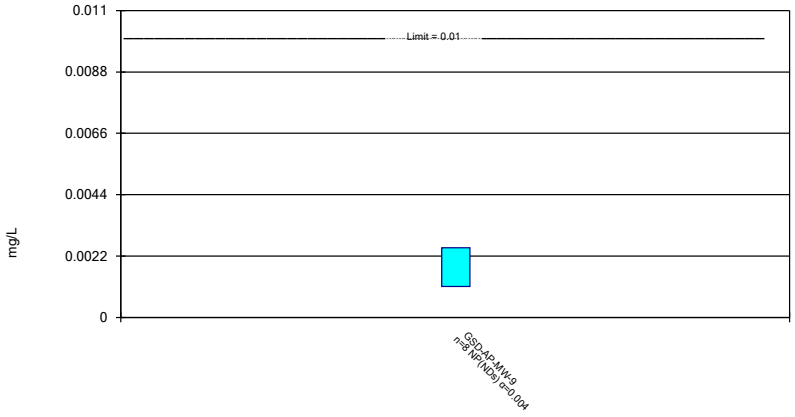
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Non-Parametric Confidence Interval

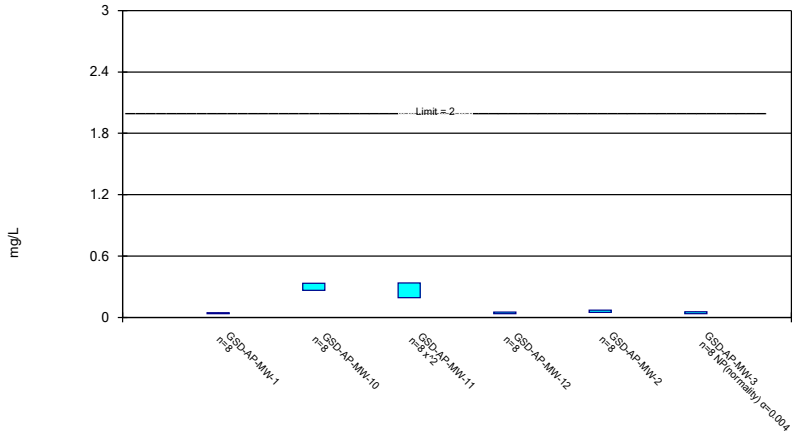
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Parametric and Non-Parametric (NP) Confidence Interval

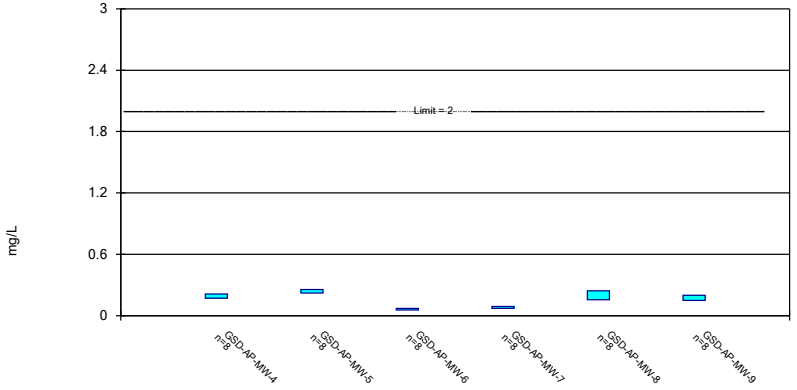
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

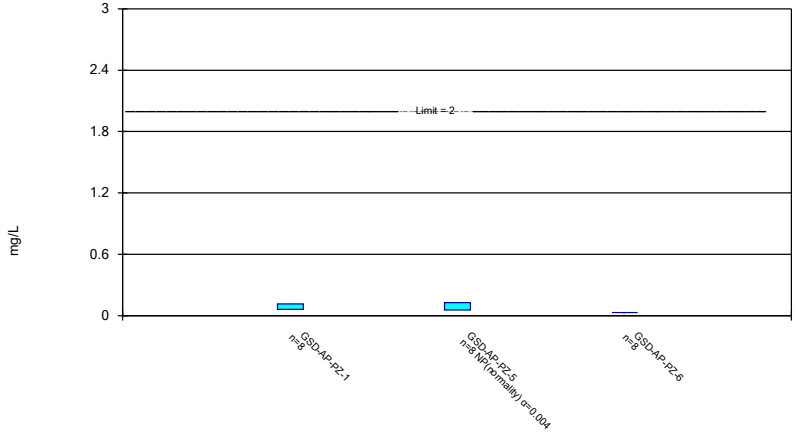


Constituent: Barium Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

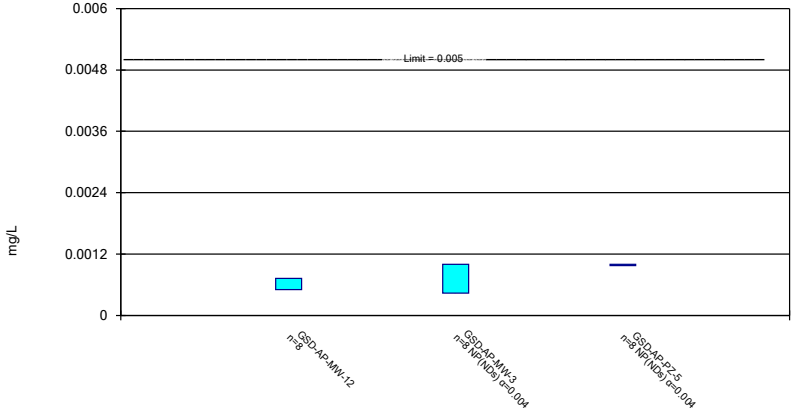


Constituent: Barium Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

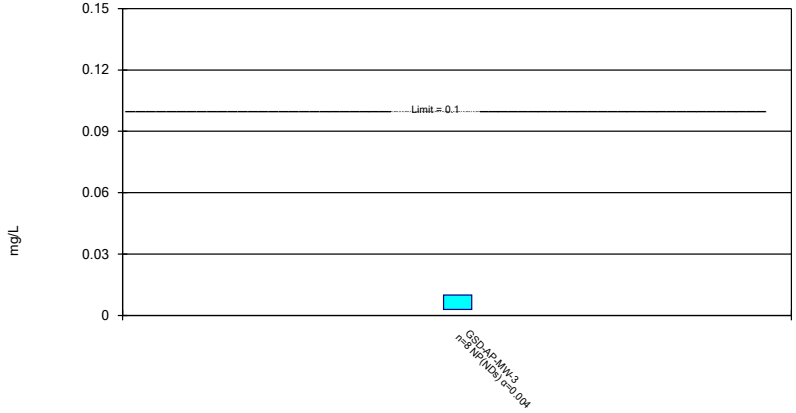


Constituent: Cadmium Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

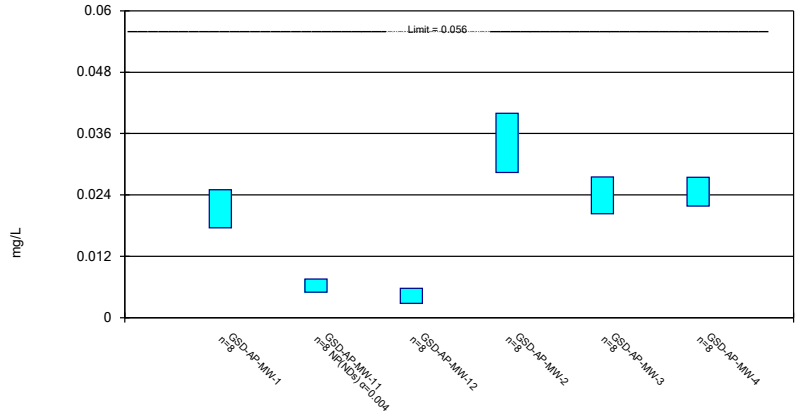
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

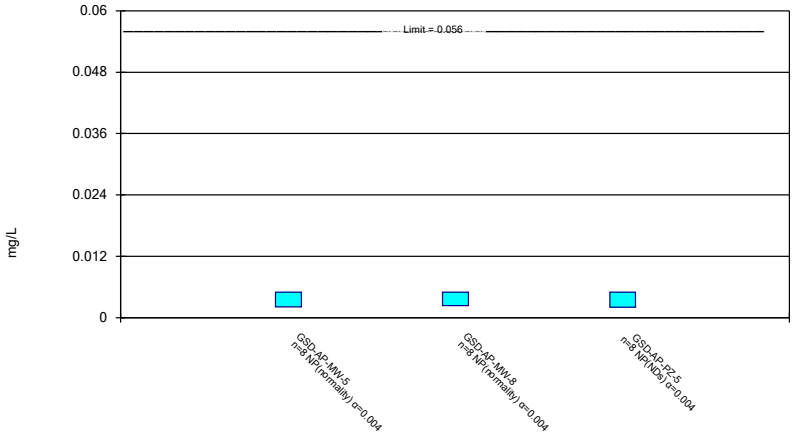


Constituent: Cobalt Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

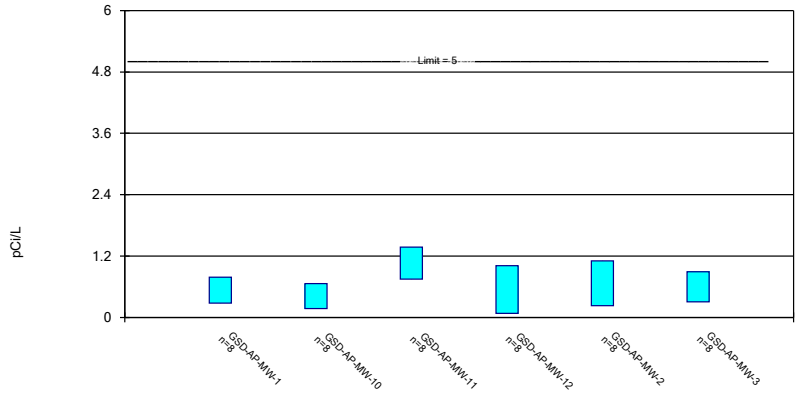


Constituent: Cobalt Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

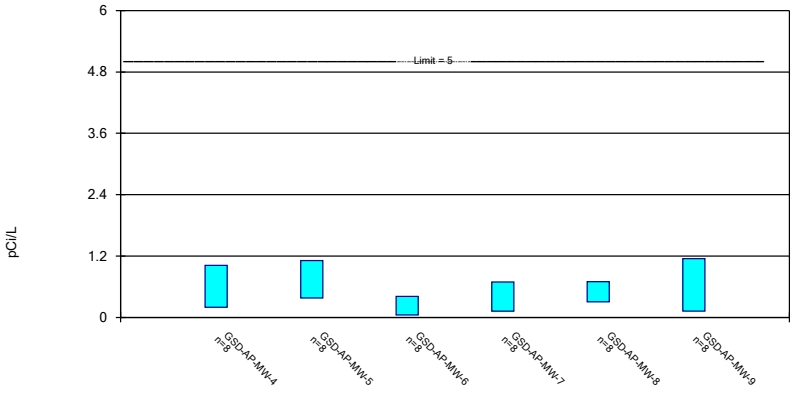


Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

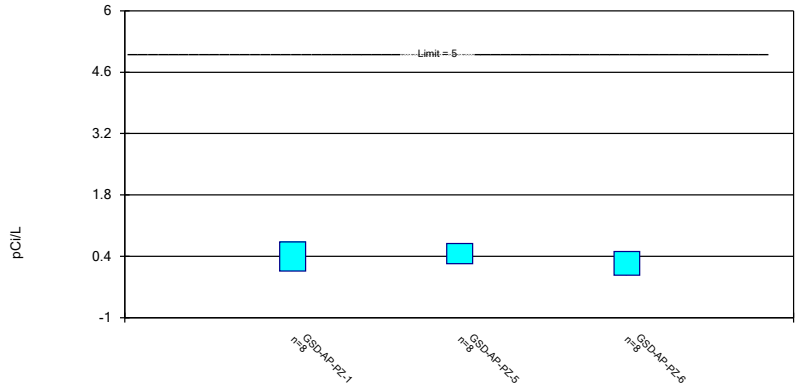
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

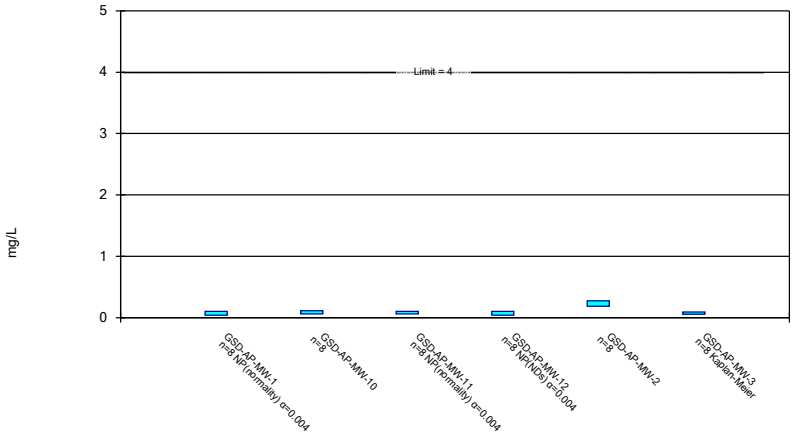


Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

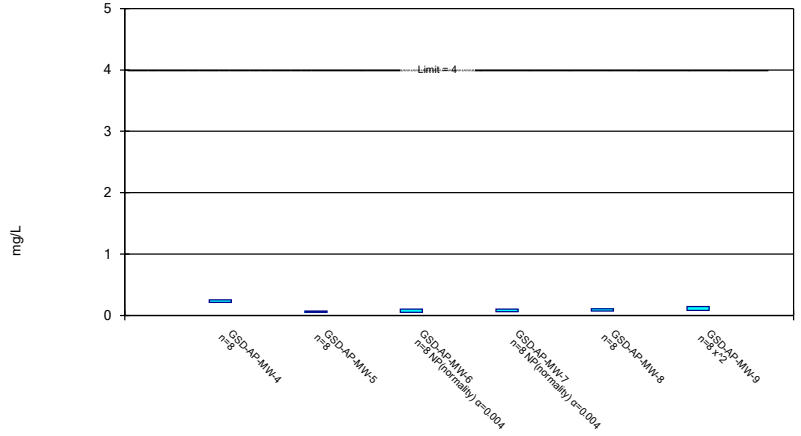


Constituent: Fluoride Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

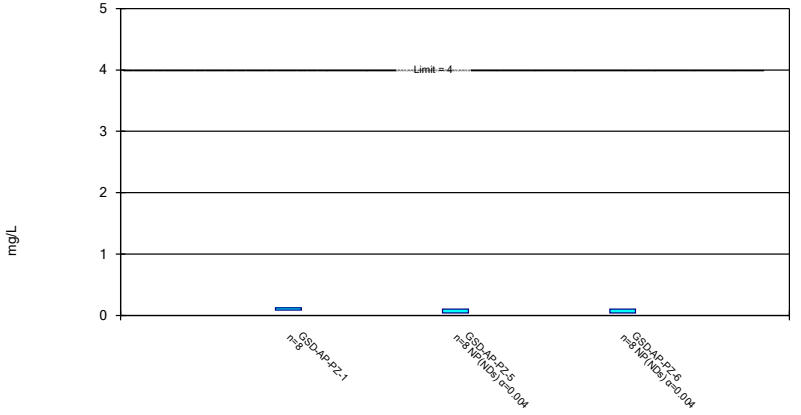


Constituent: Fluoride Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

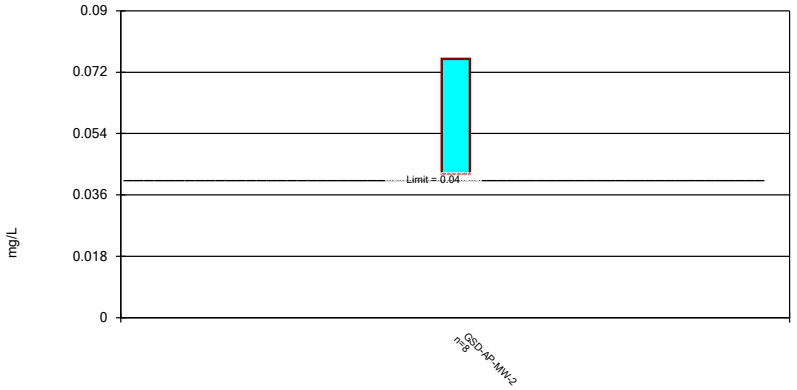


Constituent: Fluoride Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

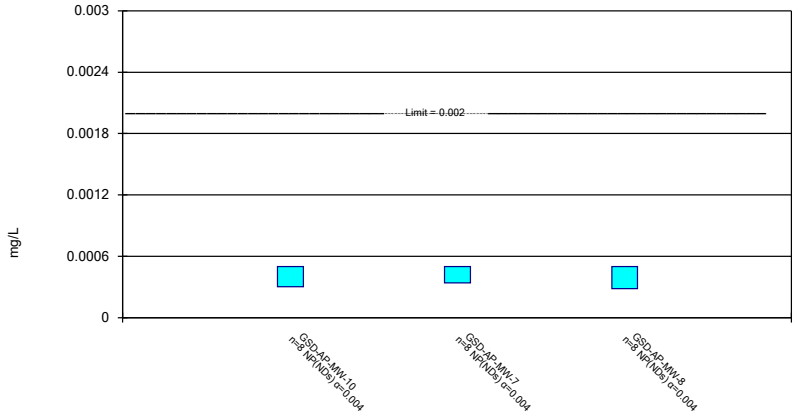


Constituent: Lithium Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

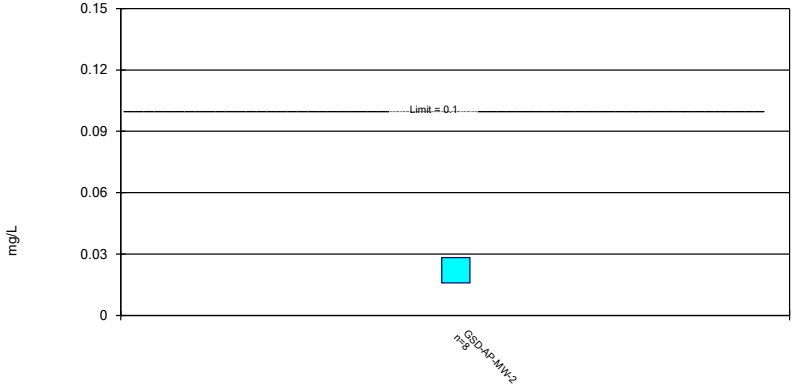


Constituent: Mercury Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

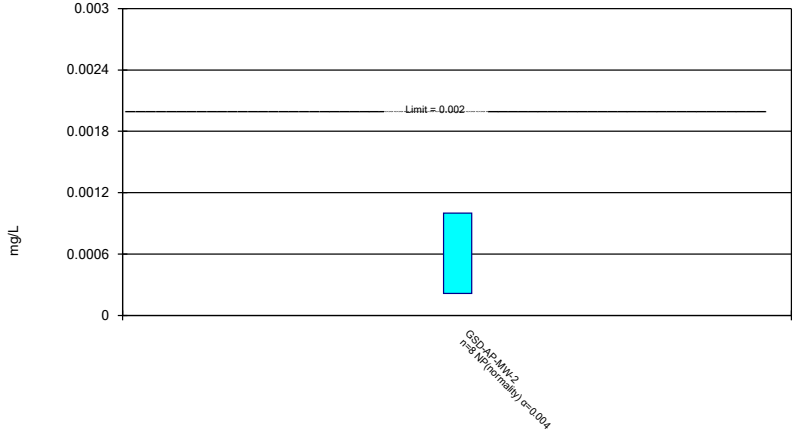


Constituent: Molybdenum Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 11/4/2020 2:30 PM View: Appendix IV
Plant Gadsden Client: Southern Company Data: Plant Gadsden CCR

Appendix D

Gadsden XRF Data

Well ID	Units	Ag	Ag Error	Al	Al Error	As	As Error	Au	Au Error	Ba	Ba Error	Bal	Bal Error	Bi	Bi Error	Ca	Ca Error	Cd	Cd Error	Cl
GSD-AP-MW-10	ppm	<LOD	5.02	25402.89	1257.23	<LOD	5.9	<LOD	300000	<LOD	23.08	749826.25	1592.95	<LOD	5.62	10166.81	334.57	<LOD	6.19	1205.1
GSD-AP-MW-16	ppm	<LOD	4.17	52876.37	958.86	5.93	2.04	2.46	1.63	294.78	13.5	594131.5	1245.22	5.99	3.18	31009.75	411.28	<LOD	5.09	<LOD
GSD-MW-07	ppm	<LOD	4.2	31604.32	674.3	11.97	2.16	<LOD	2.6	394.15	14.28	596814.5	1181.13	<LOD	3.51	2939.67	79.56	11.64	3.55	67.36
GSD-AP-PZ-02	ppm	<LOD	3.83	46258.98	796.63	3.29	1.85	<LOD	2.15	136.25	11.88	601844.31	1152.91	<LOD	3.94	3137.01	72.68	<LOD	4.63	110.88
GSD-AP-MW-12	ppm	<LOD	3.84	40159.88	741.52	5.57	1.93	3.4	1.71	449.01	13.27	584553.5	1216.17	5.31	2.97	3564.57	67.01	5.11	3.15	<LOD
GSD-AP-MW-11	ppm	<LOD	4.16	45398.35	834.42	12.65	2.36	<LOD	2.49	563.1	15	591042.81	1247.05	<LOD	3.78	4607.57	91.61	9.4	3.48	<LOD
GSD-AP-MW-17	ppm	5.48	3.17	39523.96	1139.1	5.34	2.11	<LOD	2.64	511.42	16.28	576426.63	1307.61	7.64	3.37	167429.75	888.38	9.77	3.86	144.11
GSD-AP-MW-18H	ppm	<LOD	3.92	24699.05	582.96	11.62	2.11	<LOD	2.31	394.55	13.26	588709.13	1164.71	<LOD	3.04	1408.07	49.92	7.4	3.25	<LOD
GSD-AP-MW-09	ppm	<LOD	3.51	32768.01	700.92	4.92	2.19	<LOD	2.14	98.81	18.64	582896.56	1153.19	<LOD	2.96	4036.25	69.03	<LOD	4.3	466.78
GSD-AP-MW-08	ppm	<LOD	5.04	22155.18	1018.42	116.97	9.26	<LOD	10.84	403.85	39.68	462563.38	2844.67	<LOD	15.5	5406.66	348.44	<LOD	9.79	4182.05
GSD-AP-MW-14	ppm	<LOD	3.26	23929.04	585.24	<LOD	2.3	<LOD	1.93	<LOD	14.5	545908.31	1188.79	<LOD	2.58	963.47	32.06	<LOD	3.97	315.86
GSD-AP-MW-01	ppm	<LOD	3.97	25101.77	580.95	18.08	2.12	2.73	1.63	347.38	13.11	650295.94	1053.53	<LOD	2.88	5572.05	97.1	7.81	3.28	230.99
GSD-AP-MW-04	ppm	5.31	2.82	33531.15	693.87	29.05	2.63	<LOD	2.6	494.58	14.37	661244.13	1095.37	<LOD	3.3	11289.68	284.52	15.33	3.52	335.43
GSD-AP-MW-04V	ppm	<LOD	4.51	48971.49	1115.9	5.7	2.09	<LOD	2.6	427.01	15.19	560798.19	1325.29	6.05	3.29	101310.58	716.03	10.17	3.72	<LOD
GSD-AP-MW-05	ppm	4.38	2.92	58936.72	1078.78	3.33	2.08	<LOD	2.59	427.8	14.73	592563.56	1288.97	6.97	3.46	48294.25	520.55	9.04	3.58	<LOD
GSD-AP-MW-03	ppm	4.31	2.67	34502.02	711.2	7.25	2	<LOD	2.38	415.18	13.44	587152.81	1211.29	<LOD	5.35	14084.29	256.15	6.74	3.25	<LOD
GSD-AP-MW-20H	ppm	<LOD	4.1	43736.31	792.59	7.83	2.28	<LOD	2.46	417.67	13.86	597154.19	1225.79	<LOD	4.62	20081.66	322.28	10.78	3.41	137.18
GSD-AP-MW-19H	ppm	<LOD	3.92	48036.11	829.66	6.89	2.01	<LOD	2.31	313.75	13.09	589626.31	1207.55	5.32	3.08	5716.78	93.01	<LOD	4.89	83.36
GSD-AP-MW-06	ppm	<LOD	3.74	21893.2	516.01	3.22	1.75	<LOD	2.25	249.74	12.2	694685.13	950.3	9.94	2.91	21445.72	285.15	<LOD	4.64	<LOD
GSD-AP-PZ-01	ppm	<LOD	4.26	47669.98	921.84	9.17	2.3	<LOD	2.57	412	14.55	571476.88	1289.53	<LOD	4.7	33366.04	440.65	6.76	3.53	441.87
GSD-AP-PZ-05	ppm	<LOD	4.3	36952.06	763.92	17.9	2.55	<LOD	2.5	563.96	15.41	569477.81	1247.68	<LOD	3.75	1415.7	62.94	<LOD	5.2	248.57
GSD-AP-PZ-06	ppm	<LOD	4.07	38306.03	742.7	8.03	2.31	<LOD	2.38	337.35	13.45	593702.06	1189.63	<LOD	3.46	968.8	52.19	<LOD	4.95	245.83
GSD-AP-MW-02	ppm	5.93	3.26	58343.06	1126.09	3683.44	23.65	<LOD	5.5	469.77	16.52	570844.81	1465.48	<LOD	4.83	27809.13	489.02	7.98	3.94	209.1
GSD-AP-MW-02	ppm	<LOD	4.84	58899.05	1142.76	3687.25	23.47	<LOD	5.43	474.68	16.59	570513.63	1455.55	<LOD	5.39	27475.25	486.81	9.61	3.98	216.7
GSD-AP-MW-10 DUP	ppm	<LOD	3.33	64432.43	1693.89	34.89	5.13	<LOD	300000	<LOD	16.7	401926.13	2239.23	<LOD	6.4	44478.7	698.26	<LOD	4.2	5185.58
GSD-AP-MS-08	ppm	<LOD	7.41	19330.21	936.42	136.97	8.93	<LOD	11.12	419.99	40.78	491497.28	2637.39	<LOD	14.13	4979.52	336.53	<LOD	8.53	4639.42
GSD-AP-MS-08 DUP	ppm	<LOD	4.99	18512.98	915.74	114.29	8.67	<LOD	10.63	454.7	40.24	496746.28	2573.73	<LOD	14.35	4914.79	330.52	<LOD	8.31	4662.18

Notes:

Samples were analyzed in October 2020.

<: Constituent was analyzed for but not detected

LOD: level of detection

ppm: parts per million

XRF: X-ray fluorescence

Gadsden XRF Data

Well ID	Units	Cl Error	Co	Co Error	Cr	Cr Error	Cs	Cs Error	Cu	Cu Error	Fe	Fe Error	Hf	Hf Error	Hg	Hg Error	K	K Error	Mg	Mg Error
GSD-AP-MW-10	ppm	77.37	<LOD	300000	20.76	1.96	<LOD	3.11	62.47	27.1	9661.41	193.79	<LOD	1.5	<LOD	300000	1288.34	30.1	<LOD	6248.01
GSD-AP-MW-16	ppm	24.68	<LOD	88.67	90.42	7.83	25.07	1.65	40.28	8	40100.52	226.16	<LOD	1.5	<LOD	5.15	13401.36	202.19	10783.24	1718.04
GSD-MW-07	ppm	16.64	<LOD	107.97	86.67	8.94	30.59	1.7	122.96	9.8	54106.19	268.93	<LOD	1.5	<LOD	6.21	11681.21	204.48	3409.68	1240.63
GSD-AP-PZ-02	ppm	17.91	<LOD	78.08	96.4	7.75	3.27	1.46	19.55	7.01	35579.96	199.55	<LOD	1.5	<LOD	4.6	14963.38	207.66	5982.8	1311.44
GSD-AP-MW-12	ppm	23.07	85.44	43.59	75.22	6.72	32.73	1.55	42.92	7.71	23826.96	167.12	<LOD	1.5	<LOD	5.63	11858.39	169.11	<LOD	1626.03
GSD-AP-MW-11	ppm	25.58	143.78	68.96	71.01	8.38	32.15	1.69	35.34	8.23	48688.09	258.76	<LOD	1.5	<LOD	5.38	15200.14	226.21	2101.54	1259.56
GSD-AP-MW-17	ppm	23.39	112.13	52.68	118.53	16.65	44.88	1.92	48.77	9.01	28053.61	202.08	<LOD	1.5	<LOD	5.9	11458.74	181.34	7139.42	2541.91
GSD-AP-MW-18H	ppm	22.62	86.23	52.32	61.4	6.87	37.01	1.6	26.22	7.45	32938.67	199.38	<LOD	1.5	5.87	3.39	8791.33	133.56	2881.5	1134.14
GSD-AP-MW-09	ppm	21.05	<LOD	66.48	67.18	6.51	<LOD	2.04	33.62	7.34	26840.49	170.94	<LOD	1.5	<LOD	4.68	11162.99	168.8	5707.7	1359.3
GSD-AP-MW-08	ppm	48.46	<LOD	303.35	531.19	40.11	20.96	3.01	<LOD	36.57	379867.81	2078.72	<LOD	1.5	<LOD	300000	6348.96	261.84	10728.4	3609.14
GSD-AP-MW-14	ppm	20.03	<LOD	45.73	43.36	5.01	<LOD	1.88	12.4	6.52	14200.6	120.5	<LOD	1.5	<LOD	4.37	4850.06	81.33	<LOD	1695.15
GSD-AP-MW-01	ppm	17.01	<LOD	94.83	52.67	8.55	40.47	1.63	20.63	7.43	47235.73	245.1	<LOD	1.5	<LOD	5.01	6215.71	136.61	2091.59	1089.75
GSD-AP-MW-04	ppm	18.03	<LOD	120.16	134.62	16.6	54.92	1.75	32.18	8.21	62543.93	306.68	<LOD	1.5	6.22	3.67	11535.7	202.32	2882.2	1198.58
GSD-AP-MW-04V	ppm	27.73	<LOD	92.13	58.88	7.66	40.41	1.83	47.7	8.74	39294.3	238.11	<LOD	1.5	<LOD	5.53	12619.1	199.96	6852.65	2116.55
GSD-AP-MW-05	ppm	28.45	<LOD	100.51	94.64	8.36	36.78	1.76	28.68	8.27	45958.57	256.32	<LOD	1.5	<LOD	5.48	14838.17	217.85	5304.22	1684.46
GSD-AP-MW-03	ppm	23.74	<LOD	70.3	40.56	6.46	39.65	1.62	39.69	7.83	26540.68	180.82	<LOD	1.5	<LOD	5.14	10604.13	162.72	4168.67	1266.87
GSD-AP-MW-20H	ppm	18.03	<LOD	82.94	78.07	7.55	41.07	1.68	39.75	8.08	34411.3	211.76	<LOD	1.5	<LOD	5.28	11780.43	181.81	2582.75	1218.37
GSD-AP-MW-19H	ppm	17.8	<LOD	83.95	89.74	7.89	26.97	1.59	52.16	7.94	38081.86	212.96	<LOD	1.5	<LOD	4.96	14529.25	206.96	6529.97	1371.97
GSD-AP-MW-06	ppm	20.63	<LOD	60.2	24.22	5.47	22.42	1.51	18.91	6.96	21625.93	156.94	<LOD	1.5	<LOD	4.62	7643.19	113.5	3691.15	1075.18
GSD-AP-PZ-01	ppm	22.02	123.45	68.41	63.58	8.08	36.59	1.74	30.81	8.21	47967.31	258.39	<LOD	1.5	<LOD	5.53	11977.37	199.99	6099.82	1601.4
GSD-AP-PZ-05	ppm	19.28	<LOD	113.05	75.58	8.96	31.66	1.73	38.33	8.3	56556.88	277.88	<LOD	1.5	5.82	3.62	10211.71	195.77	4551.22	1379.55
GSD-AP-PZ-06	ppm	19.04	<LOD	94.78	73.57	8.14	26.73	1.62	28.07	7.71	45348.91	239.42	<LOD	1.5	5.39	3.44	9452.05	155.32	1818.57	1166.88
GSD-AP-MW-02	ppm	21.71	<LOD	167.79	200.94	21.7	37.09	1.94	34.95	9.99	83683.76	402.55	<LOD	1.5	<LOD	7.06	15781.78	269.53	7153.84	1894.99
GSD-AP-MW-02	ppm	22.01	<LOD	166.32	207.01	21.67	36.8	1.95	39.13	9.97	83766.21	398.98	<LOD	1.5	<LOD	7.13	15890.08	271.12	7283.31	1920.64
GSD-AP-MW-10 DUP	ppm	69.58	<LOD	300000	101.61	6.65	<LOD	2.2	125.13	19.47	96516.73	572.35	<LOD	1.5	<LOD	300000	20502.11	356.74	9002.46	3619.01
GSD-AP-MS-08	ppm	50.59	<LOD	297.19	500.22	40.39	26.32	3.01	<LOD	30.81	369309.34	1993.8	<LOD	1.5	<LOD	300000	5928.74	254.29	<LOD	4739.82
GSD-AP-MS-08 DUP	ppm	50.5	<LOD	293.51	508.46	39.37	24.98	2.97	<LOD	43.33	368614.34	1978.42	<LOD	1.5	<LOD	300000	5845.44	249.5	<LOD	5867.83

Notes:

Samples were analyzed in October 202

<: Constituent was analyzed for but no

LOD: level of detection

ppm: parts per million

XRF: X-ray fluorescence

Gadsden XRF Data

Well ID	Units	Mn	Mn Error	Mo	Mo Error	Nb	Nb Error	Ni	Ni Error	P	P Error	Pb	Pb Error	Pd	Pd Error	Rb	Rb Error	Re	Re Error	S	S Error	Sb
GSD-AP-MW-10	ppm	<LOD	300000	5.21	2.12	10.22	2.46	<LOD	300000	2841.77	246.06	<LOD	300000	<LOD	5.49	<LOD	1.5	<LOD	1.5	264.54	41.6	<LOD
GSD-AP-MW-16	ppm	386.32	29.58	<LOD	2.34	12.23	1.34	48.05	9.3	383.41	103.12	11.6	2.34	<LOD	4.69	40.6	1.18	<LOD	1.5	1401.25	52.49	25.54
GSD-MW-07	ppm	276.83	29.02	8.93	1.89	13.92	1.39	56.34	9.78	993.71	104.61	7.8	2.27	<LOD	4.85	26.65	1.01	<LOD	1.5	361.47	36.99	31.42
GSD-AP-PZ-02	ppm	141.41	22.73	<LOD	2.35	14.61	1.3	20.86	8.37	598.57	101.27	11.37	2.17	<LOD	4.29	37.28	1.08	<LOD	1.5	1720.84	51.14	<LOD
GSD-AP-MW-12	ppm	246.29	25.74	<LOD	2.67	18.6	1.39	45.16	8.85	996.85	113.73	9.36	2.19	<LOD	4.31	32.23	1.05	<LOD	1.5	215.46	35.94	31.85
GSD-AP-MW-11	ppm	434.21	32.15	<LOD	2.68	16.89	1.45	53.75	9.87	3649.37	124.03	13.7	2.53	<LOD	4.69	40.01	1.21	<LOD	1.5	459.9	40.97	28.85
GSD-AP-MW-17	ppm	416.74	31.92	<LOD	2.44	10.03	1.38	59.44	10.3	<LOD	170.05	9.16	2.43	<LOD	5.42	34.51	1.19	<LOD	1.5	2515.24	79.89	41.42
GSD-AP-MW-18H	ppm	350.1	28.44	<LOD	2.51	8.81	1.29	47.81	9.01	1467.08	113.88	10.13	2.21	<LOD	4.47	24.28	1.34	<LOD	1.5	399.89	36.91	34.59
GSD-AP-MW-09	ppm	277.07	25.03	7.19	2.14	23	1.4	<LOD	12.46	3439.64	1053.23	6.46	1.98	<LOD	3.95	33.74	1.45	<LOD	1.5	1144.51	87.79	<LOD
GSD-AP-MW-08	ppm	842.32	66.9	5.5	2.33	5.51	2.54	<LOD	68.24	6007.67	131.58	<LOD	12.24	<LOD	5.4	15.48	1.86	<LOD	1.5	364.26	49.43	<LOD
GSD-AP-MW-14	ppm	33.79	17.77	4.76	1.16	9.62	1.2	<LOD	11.28	568.82	127.2	7.75	1.87	<LOD	3.66	17.28	1.08	<LOD	1.5	557.86	42.43	<LOD
GSD-AP-MW-01	ppm	366.22	29.66	<LOD	2.26	6.61	1.27	68.53	9.26	591.12	93.83	3.28	1.96	<LOD	4.46	12.49	1.1	<LOD	1.5	1383.62	46.47	39.41
GSD-AP-MW-04	ppm	531.99	35.5	<LOD	2.37	3.33	1.3	78.37	10.1	813.84	89.3	6.7	2.29	<LOD	4.85	23.45	1.42	<LOD	1.5	1220.7	45.3	61.16
GSD-AP-MW-04V	ppm	694.1	36.58	<LOD	2.39	9.25	1.35	70.76	10.16	<LOD	267.17	9.59	2.39	<LOD	5.05	38.23	1.2	<LOD	1.5	3995.05	86.32	42.47
GSD-AP-MW-05	ppm	513.08	33.78	<LOD	2.4	15.29	1.43	67.16	10.12	296.33	104.85	11.43	2.48	<LOD	4.85	51.08	1.37	<LOD	1.5	3298.01	73.52	33.44
GSD-AP-MW-03	ppm	695.07	34.47	<LOD	2.84	15.84	1.4	52.25	9.14	679.57	111.21	9	2.21	<LOD	4.51	33.43	1.53	<LOD	1.5	1015.78	45.59	37.89
GSD-AP-MW-20H	ppm	902.02	38.65	<LOD	2.71	11.85	1.37	62.57	9.56	921.9	105.49	16.79	2.58	<LOD	4.71	30.73	1.07	<LOD	1.5	1575.66	50.54	38.19
GSD-AP-MW-19H	ppm	548.94	31.6	<LOD	2.48	13.67	1.33	45.27	8.96	500.33	102.59	11.28	2.26	<LOD	4.44	40.99	1.16	<LOD	1.5	3840.51	68.37	25.3
GSD-AP-MW-06	ppm	301.1	25.72	<LOD	2.36	10.49	1.28	35.1	8.4	387.7	84.65	8	2.04	<LOD	4.19	30.94	1.41	<LOD	1.5	788.19	39.77	16.67
GSD-AP-PZ-01	ppm	990.9	40.93	<LOD	2.64	12.75	1.4	63.25	10.01	719.99	111.05	14.62	2.57	<LOD	4.83	32.9	1.12	<LOD	1.5	1187.63	51.03	29.48
GSD-AP-PZ-05	ppm	2845.26	61.81	<LOD	2.48	10.96	1.37	57.64	9.92	1115.44	113.44	16.68	2.63	<LOD	4.78	28.6	1.05	<LOD	1.5	<LOD	251.34	26.29
GSD-AP-PZ-06	ppm	211.1	26.39	<LOD	2.47	11.19	1.33	50.33	9.31	877.51	109.17	19.83	2.64	<LOD	4.42	23.38	1	<LOD	1.5	<LOD	223.85	22.97
GSD-AP-MW-02	ppm	1221.28	52.12	13.12	1.51	12.44	1.57	58.5	12.35	661.13	106.29	12.9	3.03	<LOD	5.49	48.75	1.49	<LOD	1.5	3764.16	77.83	31.63
GSD-AP-MW-02	ppm	1175.34	51.06	11.3	1.48	11.85	1.55	42.24	12.02	683.21	107.55	13.03	3.02	<LOD	5.32	47.52	1.46	<LOD	1.5	3753.08	78.51	39.22
GSD-AP-MW-10 DUP	ppm	1038.8	72.54	5.37	2.01	22.93	2.19	<LOD	300000	5697.27	217.13	15.5	5.11	<LOD	3.73	35.61	1.65	<LOD	1.5	2862.29	109.87	<LOD
GSD-AP-MS-08	ppm	879.94	66.8	4.33	2.28	5.63	2.5	<LOD	67.76	5726.14	126.98	<LOD	10.2	<LOD	3.73	17.09	1.85	<LOD	1.5	340.05	48.68	<LOD
GSD-AP-MS-08 DUP	ppm	875.15	66.26	5.18	2.27	6.66	2.5	<LOD	71.65	5594.01	125.61	<LOD	11.14	<LOD	3.94	17.56	1.85	<LOD	1.5	348.93	48.59	<LOD

Notes:

Samples were analyzed in October 202

<: Constituent was analyzed for but no

LOD: level of detection

ppm: parts per million

XRF: X-ray fluorescence

Gadsden XRF Data

Well ID	Units	Sb Error	Sc	Sc Error	Se	Se Error	Si	Si Error	Sn	Sn Error	Sr	Sr Error	Ta	Ta Error	Te	Te Error	Th	Th Error	Ti	Ti Error	U
GSD-AP-MW-10	ppm	9.38	<LOD	4.29	<LOD	300000	194802.38	1806.11	<LOD	5.81	6.64	1.53	<LOD	1.5	<LOD	14.02	<LOD	300000	222.99	8.71	<LOD
GSD-AP-MW-16	ppm	5.37	41.02	24.4	<LOD	2.27	251998.42	1069.63	16.77	3.42	177.48	2.67	<LOD	1.5	68.27	8.05	8.51	1.81	3370.7	56.29	<LOD
GSD-MW-07	ppm	5.53	<LOD	14.49	<LOD	2.55	293676.16	1098.52	26.39	3.59	63.1	1.72	<LOD	1.5	79.93	8.29	2.83	1.69	3689.04	64.61	<LOD
GSD-AP-PZ-02	ppm	7.22	<LOD	13.24	<LOD	2.01	285240.22	1067.28	<LOD	4.55	83.59	1.79	<LOD	1.5	<LOD	10.63	5.64	1.6	4262.41	60.12	<LOD
GSD-AP-MW-12	ppm	5.03	<LOD	12.38	<LOD	2.47	327455.44	1182.74	16.72	3.17	107.7	2.08	<LOD	1.5	71.69	7.48	8.49	1.7	5931.16	63.43	6.05
GSD-AP-MW-11	ppm	5.44	<LOD	16.9	<LOD	2.39	282831.22	1111.87	15.33	3.43	92.46	2.06	<LOD	1.5	72.23	8.13	3.91	1.76	5260.39	73.67	4.16
GSD-AP-MW-17	ppm	6.15	167.39	59.9	<LOD	2.52	163151.84	1023.33	20.55	3.87	921.91	6.31	<LOD	1.5	97.15	9.22	8.67	1.95	2197.21	50.71	<LOD
GSD-AP-MW-18H	ppm	5.16	<LOD	9.5	<LOD	2.2	335956.19	1167.7	21.4	3.29	30.11	1.24	<LOD	1.5	86.24	7.75	2.52	1.51	2913.42	48.33	4.39
GSD-AP-MW-09	ppm	6.61	<LOD	12.93	<LOD	2.01	324629.72	1201.32	<LOD	4.22	72.23	1.69	<LOD	1.5	<LOD	9.81	3	1.48	6048.02	61.75	<LOD
GSD-AP-MW-08	ppm	16.27	<LOD	38.58	<LOD	4.33	98293.17	830.11	<LOD	14.39	61.48	3.25	<LOD	1.5	60.27	14.65	<LOD	300000	1551.7	85.5	<LOD
GSD-AP-MW-14	ppm	6.07	<LOD	6.16	<LOD	1.86	404249.28	1271.11	<LOD	3.85	28.25	1.11	<LOD	1.5	<LOD	8.99	3.16	1.32	2011.04	32.08	2.69
GSD-AP-MW-01	ppm	5.25	<LOD	18.45	<LOD	2.3	259162.11	1041.79	20.37	3.3	28.21	1.22	<LOD	1.5	87.78	7.82	<LOD	2.25	3733.75	64.81	<LOD
GSD-AP-MW-04	ppm	5.66	<LOD	30.42	<LOD	2.46	213892.77	972.88	32.85	3.58	45.82	1.56	<LOD	1.5	131.06	8.46	<LOD	2.46	3051.86	65.93	<LOD
GSD-AP-MW-04V	ppm	5.93	238.92	47.71	<LOD	2.48	221623.09	1089.05	21.55	3.73	396.01	4.1	<LOD	1.5	86.64	8.78	7.68	1.87	2928.03	55.76	4.45
GSD-AP-MW-05	ppm	5.65	103.61	32.18	<LOD	2.47	225884.34	1058.75	19.51	3.59	320.15	3.7	<LOD	1.5	84.61	8.49	9.68	1.98	3595.8	61.04	<LOD
GSD-AP-MW-03	ppm	5.22	<LOD	23.02	<LOD	2.33	315789.41	1161.96	20.02	3.29	74.77	1.81	<LOD	1.5	90.42	7.82	6.17	1.65	4839.35	58.51	5
GSD-AP-MW-20H	ppm	5.39	32.24	19.81	<LOD	2.33	282671.28	1103.74	24.23	3.44	103.05	2.13	<LOD	1.5	86.25	8.03	6.52	1.76	3684.97	56.98	5.83
GSD-AP-MW-19H	ppm	5.16	<LOD	17.06	<LOD	2.17	287753.09	1082.66	18.47	3.31	103.71	2.04	<LOD	1.5	63.93	7.71	8.56	1.75	4604.81	62.96	4.3
GSD-AP-MW-06	ppm	4.86	<LOD	25.61	<LOD	2.09	225888.34	968.54	11.34	3.09	85.63	1.83	<LOD	1.5	55.9	7.32	11.04	1.7	2305.71	39.02	3.85
GSD-AP-PZ-01	ppm	5.57	<LOD	40.06	<LOD	2.46	274082.63	1113.63	20.52	3.57	156.38	2.61	<LOD	1.5	75.12	8.35	6.11	1.83	3496.87	60.55	4.28
GSD-AP-PZ-05	ppm	5.55	<LOD	12.18	<LOD	2.32	312252.84	1138.94	21.11	3.59	60.66	1.7	<LOD	1.5	69.87	8.34	4.66	1.79	3059.05	64.65	<LOD
GSD-AP-PZ-06	ppm	5.23	<LOD	9.89	<LOD	2.31	306148.75	1136.52	14	3.32	40.16	1.4	<LOD	1.5	56.54	7.79	5.15	1.7	3160.79	57.72	3.79
GSD-AP-MW-02	ppm	6.22	77.48	29.94	<LOD	3.74	222329.05	1072.99	21.12	3.99	228.74	3.54	<LOD	1.5	81.12	9.35	3.37	2.22	3391.95	73.76	<LOD
GSD-AP-MW-02	ppm	6.33	77.45	29.86	<LOD	3.72	222121.98	1076.16	17.74	3.95	231.68	3.53	<LOD	1.5	89.82	9.45	6.04	2.29	3437.5	74.71	<LOD
GSD-AP-MW-10 DUP	ppm	6.48	<LOD	26.17	<LOD	300000	340483.41	1508.21	<LOD	4	364.91	5.88	<LOD	1.5	<LOD	9.61	<LOD	300000	2682.49	47.98	<LOD
GSD-AP-MS-08	ppm	16.43	<LOD	37.4	<LOD	4.51	90210.64	788.97	<LOD	14.77	60.8	3.17	<LOD	1.5	86.94	14.83	<LOD	300000	1336.74	80.02	<LOD
GSD-AP-MS-08 DUP	ppm	16	<LOD	36.93	<LOD	4.44	90884.13	788.47	<LOD	22.66	61.64	3.16	<LOD	1.5	69.89	14.44	<LOD	300000	1342.82	79.82	<LOD

Notes:
Samples were analyzed in October 202
<: Constituent was analyzed for but no
LOD: level of detection
ppm: parts per million
XRF: X-ray fluorescence

Gadsden XRF Data

Well ID	Units	U Error	V	V Error	W	W Error	Zn	Zn Error	Zr	Zr Error
GSD-AP-MW-10	ppm	300000	5.74	2.1	350.87	61.75	<LOD	300000	10.55	1.8
GSD-AP-MW-16	ppm	3.75	60.93	12.23	<LOD	23.37	87.18	5.59	140.17	2.62
GSD-MW-07	ppm	3.45	68.81	14.21	155.01	18.85	55.87	5.27	408.87	3.99
GSD-AP-PZ-02	ppm	3.32	76.71	13.04	<LOD	21.05	60.65	4.67	279.37	3.14
GSD-AP-MW-12	ppm	2.35	75.52	13.34	126.23	17.05	55.78	4.91	478.4	4.14
GSD-AP-MW-11	ppm	2.55	91.53	15.96	24.8	16.34	57.34	5.11	359.85	3.85
GSD-AP-MW-17	ppm	4.67	86.68	23.73	49.87	17.89	55.97	5.3	84.84	3.28
GSD-AP-MW-18H	ppm	2.03	48.81	10.6	27.59	15.2	48.02	4.61	313.56	3.41
GSD-AP-MW-09	ppm	3.06	60.73	12.65	<LOD	21.6	37.87	4.17	1084.3	5.85
GSD-AP-MW-08	ppm	300000	251.78	50.01	<LOD	71.23	235.79	18.88	42.02	2.81
GSD-AP-MW-14	ppm	1.71	34.19	7.09	<LOD	20.08	31.39	3.77	203.74	2.58
GSD-AP-MW-01	ppm	2.8	65.37	21.81	<LOD	22.88	35.92	4.31	115.22	2.26
GSD-AP-MW-04	ppm	3.2	106.95	21.54	<LOD	24.72	39.42	4.72	90.53	2.22
GSD-AP-MW-04V	ppm	2.81	63.47	11.87	<LOD	25.33	92.47	6	88.92	2.66
GSD-AP-MW-05	ppm	4.31	73.78	13.29	<LOD	24.94	79.15	5.68	110.02	2.71
GSD-AP-MW-03	ppm	2.21	67.35	12.31	29.34	15.46	37.19	4.39	569.22	4.57
GSD-AP-MW-20H	ppm	2.43	63.24	12.34	27.33	15.97	72.26	5.37	434.4	4.14
GSD-AP-MW-19H	ppm	2.41	71.67	13.42	24.56	15.09	76.02	5.22	302.7	3.37
GSD-AP-MW-06	ppm	2.04	36.26	8.51	<LOD	21.33	47.62	4.4	279.24	3.18
GSD-AP-PZ-01	ppm	2.52	72.98	13.29	35.55	16.76	61.44	5.24	317.92	3.7
GSD-AP-PZ-05	ppm	3.45	70.47	14.82	<LOD	24.48	77.04	5.57	193.53	2.91
GSD-AP-PZ-06	ppm	2.18	68.49	12.92	<LOD	23.29	68.91	5.18	243.46	3.09
GSD-AP-MW-02	ppm	4.83	165.16	30.56	<LOD	29.26	89.61	6.81	127.46	3.09
GSD-AP-MW-02	ppm	4.73	162.08	30.79	44.6	20.06	80.46	6.59	128.84	3.08
GSD-AP-MW-10 DUP	ppm	300000	50.66	10.57	512.64	48.09	234.39	15.57	256.5	4.7
GSD-AP-MS-08	ppm	300000	174.84	46.59	<LOD	71.3	235.1	18.58	48.23	2.87
GSD-AP-MS-08 DUP	ppm	300000	212.2	46.96	<LOD	69.39	225.97	18.12	48.44	2.85

Notes:
Samples were analyzed in October 202
<: Constituent was analyzed for but no
LOD: level of detection
ppm: parts per million
XRF: X-ray fluorescence