

**2017 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**MISSISSIPPI POWER COMPANY
PLANT VICTOR DANIEL
GYPSUM STORAGE AREA**

January 31, 2018

Prepared for

Mississippi Power Company
Gulfport, Mississippi

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This 2017 Annual Groundwater Monitoring and Corrective Action Report, Mississippi Power Company – Plant Daniel Gypsum Storage Area has been prepared in compliance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR 257 Subpart D) by a licensed professional geologist with Southern Company Services.



Lauren Parker
Originator
Geologist



Cale B. Sellers
Mississippi Registered
Professional Geologist 0918



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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR 257 Subpart D), this *2017 Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document 2017 groundwater monitoring at Plant Daniel Gypsum Storage Area and satisfies the requirements of 40 CFR §257.90(e). Semi-annual monitoring and reporting for Plant Daniel is performed in accordance with the monitoring requirements §257.90 through §257.94.

1.1 Site Location and Description

Mississippi Power Company's (MPC)'s Plant Daniel is located within Section 35, Township 5 South, Range 6 West, Sections 37, 10, 15, East half of Section 9, Southwest ¼ of Section 2, NW ¼ and south half of Section 11, and the north half and NW ¼ of the SW ¼ of Section 14, all of Township 6 South, Range 6 West. Plant Daniel is situated immediately northwest of the intersection of Mississippi State Highways 63 and 613, between the Pascagoula River to the west and Highway 63 to the east. The site address is 13201 Highway 63 N, Escatawpa, Mississippi 39562. Figure 1, Site Location Map, depicts the location of Plant Daniel relative to site features and the surrounding area.

The Gypsum Storage Area occupies approximately 35 acres along the northeast portion of the property. Figure 2, Site Plan and Well Location Map, depicts the general configuration Gypsum Storage Area and the site monitoring well network.

1.2 Regional Geology & Hydrogeologic Setting

Jackson County lies in the Pascagoula River Drainage Basin in the Gulf Coastal Plain physiographic province. Topographically, the province is gently rolling to flat with local salt marshes. Rock outcrops are sedimentary in origin and range in age from late Miocene to Recent (Gandl, 1982). A dominant regional structural feature which affects the sediments of Miocene and younger age is the Gulf Coast geosyncline. The sediments dip toward the Gulf of Mexico. Where formations are near the surface, dips are from 15 to 35 feet/mile. Further from the outcrop, dips increase dramatically with depth. Fresh-water aquifers in the Pascagoula area are sand or sand and gravel beds of Miocene age or younger, generally less than 1,000 feet below the surface.

The surface geology of soils near Plant Daniel results from present-day weathering processes dictated by southern Mississippi's semi-tropical climate and the parent geologic materials. The soil profile formed from a wide variety of sediments of recent age, and from Pleistocene terrace deposits. The soils therefore contain sand, silt, clay, gravel and organics.

Studies prepared by Southern Company Services, establish five geologic units underlying the immediate

Plant Daniel property:

- Unit 1 is a sandy clay aquitard. The unit is discontinuous across the Plant Daniel site and extends from the surface to approximately 32 feet deep in some areas.
- Unit 2 is a sand aquifer, which extends to approximately 70 feet and is considered the uppermost aquifer for groundwater monitoring purposes.
- Unit 3 is a clay aquitard underlying Unit 2 with thicknesses ranging from 2.5 to 9.5 feet at Plant Daniel.
- Unit 4 is a sand and gravel aquifer with a thickness of 34 feet or greater.
- Unit 5 is a clay aquitard.

Fifteen principal aquifers underlie about 75 percent of the state of Mississippi. Two aquifers supply water to the Pascagoula area. These are the Pliocene-age Citronelle and the Miocene Aquifer System, which includes the Graham Ferry Aquifer. Plant Daniel is located in the Citronelle outcrop area.

The Citronelle Aquifers are the shallowest aquifers in the Pascagoula area. Although principally a sand and gravel formation, the Citronelle is characterized by occasional lenses and layers of clay which may cause semi-artesian conditions. Sediments become coarse near the irregular contact with the underlying Pascagoula or Graham Ferry Formation. Also, the Citronelle and overlying coastal deposits are generally considered one hydrogeologic unit. The Citronelle is primarily a water table aquifer with a saturated thickness of about 45 feet. Recharge is primarily by rainfall which moves vertically and down dip to recharge underlying aquifers and to sustain local streams (Wasson, 1978).

1.3 Groundwater Monitoring System

Pursuant to §257.91, Plant Daniel has installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer (Unit 2). The certified groundwater monitoring system for the Gypsum Storage Area is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. Wells were located to serve as upgradient or lateral and downgradient monitoring points based on groundwater flow direction as determined by Figure 3, Potentiometric Surface Contour Map – October 2017. Table 1, Monitoring Well Network Summary, presents details regarding the certified monitoring well network for the Gypsum Storage Area.

Table 1
Monitoring Well Network Summary

Well ID	Purpose	Installation Date	Northing	Easting	Total Hole Depth (feet)	Top of Casing Elevation (feet MSL)	Ground Elevation (feet MSL)	Top of Screen Elevation (feet MSL)	Bottom of Screen Elevation (feet MSL)
MW-1	Upgradient	6/10/2014	384804.570	1073787.290	50	40.12	37.1	-2.45	-12.45
MW-2	Upgradient	6/9/2014	383918.840	1074555.810	50	38.65	35.6	-3.95	-13.95
MW-3	Downgradient	3/5/2014	383580.770	1071953.630	50	38.81	35.9	-3.63	-13.63
MW-4	Downgradient	6/12/2014	384615.230	1072613.220	50	40.28	37.8	-1.73	-11.73
MW-5	Downgradient	7/28/2015	384751.740	1073113.612	68	40.35	37.9	-5.60	-15.60
MW-6	Downgradient	7/27/2015	384284.978	1071955.589	67	38.66	36.4	-7.10	-17.10
MW-7	Downgradient	7/26/2015	383262.406	1072367.892	63	35.66	33.3	-8.90	-18.90
MW-8	Downgradient	7/26/2015	383296.909	1073247.204	68	36.48	34.0	-9.10	-19.10
MW-9	Downgradient	7/26/2015	383527.499	1074006.248	68	36.97	34.6	-9.00	-19.00
MW-10	Upgradient	7/27/2015	384506.865	1074482.355	68	40.24	37.3	-5.80	-15.80

2.0 PRECEDING YEAR MONITORING ACTIVITIES

As required by §257.90(e), the following describes monitoring-related activities performed during the preceding year. Since this is the first *Annual Groundwater Monitoring and Corrective Action Report*, it also describes monitoring related activities performed prior to 2017. All groundwater sampling was performed according to §257.93. Samples were collected from each well in the certified monitoring system shown on Figure 2.

Pursuant to §257.90(e)(3), Table 2, Groundwater Sampling Event Summary, presents a summary of groundwater sampling events completed for each well during the preceding year, as well as background samples collected prior to 2017. Table 2 also identifies the purpose of the sampling event (i.e., background data, detection monitoring event, verification event) as well as the status of each well (i.e, detection).

Table 2. Historical Well Sampling Summary									
	Background								Detection
Event	B.1	B.2	B.3	B.4	B.5	B.6	B.7	B.8	D.1
Date	3/2016	5/2016	7/2016	9/2016	11/2016	1/2017	3/2017	5/2017	10/2017

Notes: (1) B.# indicates background event
 (2) D.# indicates detection monitoring event.

2.1 Monitoring Well Installation and Maintenance

Monitoring well-related activities included installing a groundwater monitoring system for the Gypsum Storage Area during March 2014 through July 2015. In accordance with §257.91, a groundwater monitoring system has been installed that (1) consists of a sufficient number of wells, (2) installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer, and (3) meets the performance standards of §257.91(a).

2.2 Background Groundwater Monitoring

In accordance with §257.94(b), Plant Daniel collected 8 independent samples from each background and downgradient well and analyzed for the constituents listed in Appendix III and Appendix IV.

Background sampling was performed over the period March 2016 through May 2017. Pursuant to §257.90(e)(3), analytical data reports for each of the background sampling events are included as Appendix A, Analytical Results.

2.3 Initial Detection Groundwater Sampling

Following background monitoring (and prior to October 17, 2017), the initial detection monitoring event was completed by collecting an additional round of groundwater samples. Groundwater samples were collected from each monitoring well and analyzed for Appendix III constituents according to §257.94(a). Data reports for the initial detection monitoring event are included in Appendix A. In addition, verification resampling was performed on December 15, 2017. Verification sampling results are also included in Appendix A.

3.0 SAMPLE METHODOLOGY & ANALYSES

The following describes the methods used to complete groundwater monitoring at Plant Daniel.

3.1 Groundwater Elevation Measurement

Prior to each sampling event, groundwater elevations were recorded from monitoring wells for the Gypsum Storage Area at Plant Daniel. Historic elevations are summarized on Table 3, Summary of Groundwater Elevations. Water level data was used to develop a potentiometric surface elevation contour map shown as Figure 3, Potentiometric Surface Contour Map – October 2017. As shown on Figure 3, the general direction of groundwater flow across the site is toward the southwest to the Pascagoula River. The groundwater flow pattern observed following the October 2017 detection monitoring event is consistent with previous observations.

**Table 3
 Summary of Groundwater Elevations**

Well ID	Top of Casing Elevation (feet MSL)	Groundwater Elevations (feet MSL)								
		3/21/16	5/16/16	7/11/16	9/12/16	11/16/16	1/16/17	3/20/17	5/22/17	10/16/2017
MW-1	40.12	21.57	20.76	19.47	19.94	18.42	20.23	19.80	19.78	22.42
MW-2	38.65	21.79	21.00	19.71	20.16	18.69	20.39	20.03	19.98	22.75
MW-3	38.81	18.37	17.39	16.29	16.61	15.44	16.99	16.60	16.53	18.53
MW-4	40.28	19.93	19.04	17.83	18.20	16.85	18.57	18.13	18.13	20.49
MW-5	40.35	20.72	19.78	18.54	18.95	17.51	19.26	18.86	18.84	21.35
MW-6	38.66	19.07	17.94	16.78	17.14	15.87	17.61	17.11	17.10	19.29
MW-7	35.66	18.62	17.58	16.47	16.84	15.61	17.05	16.80	16.75	18.76
MW-8	36.48	19.56	18.52	17.41	17.82	16.50	18.04	17.73	17.73	19.94
MW-9	36.97	20.45	19.50	18.32	18.77	17.36	19.00	18.65	18.64	21.12
MW-10	40.24	22.29	21.51	20.15	20.59	19.09	20.88	20.46	20.38	23.26

3.2 Groundwater Gradient and Flow Velocity

The groundwater flow velocity at Plant Daniel was calculated using a derivation of Darcy's Law. Specifically,

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

Where:

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

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

i = Horizontal hydraulic gradient

n_e = Effective porosity

TABLE 4: Groundwater Flow Velocity Calculations – October 2017

Flow Path		Hydraulic Gradient (I) (feet/feet)	Average Hydraulic Conductivity (K) (feet/day)	Assumed Effective Porosity (n_e)	Calculated Groundwater Flow Velocity (feet/day)	Calculated Groundwater Flow Velocity (feet/year)
October 2017	A	0.0018	25.09	0.2	0.23	83.9
	B	0.0016	25.09	0.2	0.20	73.0

Groundwater flow at the site is to the southwest. Groundwater monitoring wells MW-1 and MW-7 were used as points for calculating Flow Path A and MW-10 and MW-6 were used to calculate Flow Path B. As shown in Table 4, Groundwater Flow Velocity Calculations – October 2017, horizontal hydraulic gradients range from 0.0016 ft/ft to 0.0018 ft/ft. Hydraulic conductivity was calculated to be $8.8 * 10^{-3}$ cm/s (25.09 ft/day). The average linear velocity (i.e., rate of horizontal groundwater movement) was calculated to range from 0.23 to 0.20 ft/day (83.9 to 73.0 ft/year).

3.3 Groundwater Sampling

Groundwater samples were collected in accordance with §257.93(a). Each of the monitoring wells at Plant Daniel is equipped with a dedicated QED bladder pump. Monitoring wells were purged and sampled using low-flow sampling procedures whereby samples are collected when field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) were measured to determine stabilization. Groundwater samples were collected when the following stabilization criteria were met:

- 0.1 standard units for pH
- 5% for specific conductance
- 0.2 Mg/L or 10% for DO > 0.5 mg/l (whichever is greater)
- Turbidity measurements less than 5 NTU
- Temperature and ORP – record only, no stabilization criteria

During purging and sampling a SmarTroll instrument was used to monitor and record field parameters. Once stabilization was achieved, samples were collected, placed in iced coolers, and submitted to the laboratory following standard chain-of-custody protocol.

3.4 Laboratory Analyses

Groundwater samples collected for background data included both Appendix III and Appendix IV parameters. Groundwater samples collected during the initial October 2017 detection monitoring event were analyzed for Appendix III monitoring parameters only. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in Appendix A.

All laboratory analyses were performed by Test America, Inc. (TAL) of Pensacola, Florida. TAL is accredited by National Environmental Laboratory Accreditation Program (NELAP). TestAmerica maintains a NELAP certification for all parameters analyzed for this project. Groundwater analytical data and chain-of-custody records for the monitoring events are presented in Appendix A.

3.5 Quality Assurance and Quality Control

During each sampling event, quality assurance and quality control (QA/QC) samples (field blanks) are collected at a rate of one sample per every 10 detection samples. QA/QC samples are analyzed for target constituents listed in the site groundwater monitoring plan. In addition, samplers prepared equipment blanks (where non- dedicated sampling equipment is used) and duplicate samples for quality control during each of the CCR sampling events. Data from these QA/QC samples is evaluated during data validation and kept in the site operating record. QA/QC analytical results are included as part of the laboratory analysis included in Appendix A.

Groundwater quality data in this report was independently validated in accordance with USEPA guidance (USEPA, 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post digestions spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using USEPA procedures as guidance (USEPA, 2017). Flagged data is identified in the statistical analysis reports described in the following section.

4.0 STATISTICAL ANALYSIS

The following describes statistical analysis of Appendix III groundwater monitoring data performed pursuant to §257.93(h).

4.1 Statistical Method

The Sanitas Groundwater statistical software was 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 USEPA regulations and guidance as recommended in the Unified Guidance (USEPA, 2009) document. Specific test information is provided below.

At Plant Daniel, intrawell prediction limits (PL) are used to compare the most recent sample to prediction limits constructed from carefully screened historical data from within the same well for each of the Appendix III parameters and determine whether any concentrations exceed background levels. The selected statistical method includes a 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. When resampling is performed, an SSI is determined only if the resample verifies the initial exceedance (i.e. the resample also exceeds the PL). If resampling is not performed, the initial exceedance is a confirmed exceedance.

Parametric methods are utilized when historical data follow a normal or transformed-normal distribution. If the data cannot be normalized, or most of data are non-detects, a nonparametric test is utilized. 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 (EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

The following guidance is also applicable to the site statistical analysis method:

- Statistical analyses are not required for analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain less than 15% non-detects in background, simple substitution of one-half the reporting limit may be utilized in the statistical analysis. The reporting limit utilized for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

4.2 Statistical Analyses Results

Analytical data from the initial detection monitoring event in October 2017 were statistically analyzed using intrawell comparisons, in accordance with the site's PE-certified statistical analysis method, and as described in the preceding section. The statistical analysis and comparison to prediction limits are included as Appendix B, Statistical Analysis. Based on the initial statistical analysis, apparent unverified exceedances of the statistical limits were observed. Verification samples were collected to confirm the initial exceedances according to the resampling plan in the PE-certified statistical analysis method.

Independent verification resamples were collected at downgradient wells on December 15, 2017, and the analytical data statistically re-evaluated. None of the initial exceedances at downgradient wells were confirmed by the verification resampling and subsequent statistical re-analysis; therefore, there were no confirmed SSIs during the initial detection groundwater monitoring event. Note that while the prediction limit summary table shows an exceedance for calcium at well MW-9, this is due to rounding of significant figures. The statistical analysis and comparison to prediction limits are included as Appendix B, Statistical Analysis.

4.3 Appendix IV Background Data

Pursuant to §257.95, Appendix IV groundwater quality data is statistically analyzed and compared to groundwater protection standards if assessment monitoring is implemented. Plant Daniel is currently performing detection monitoring at the Gypsum Storage Area per §257.94 and has not implemented assessment monitoring. Therefore, statistical analysis of the Appendix IV data has not been performed.

5.0 MONITORING PROGRAM STATUS

Presently, Plant Daniel Gypsum Storage Area is in detection monitoring. Statistical analysis of groundwater quality data has not identified any verified SSIs and the site will continue detection monitoring.

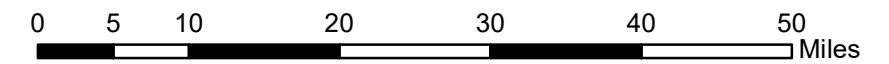
6.0 CONCLUSIONS & FUTURE ACTIONS

Statistical evaluations of the groundwater monitoring data for the Gypsum Storage Area identified initial apparent statistical exceedances of Appendix III groundwater monitoring parameters however, after conducting verification resampling, it was confirmed that statistical exceedances of Appendix III groundwater monitoring parameters did not exist. Therefore, the site remains in Detection Monitoring and will perform the next regularly scheduled semi-annual sampling event scheduled for April 2018.

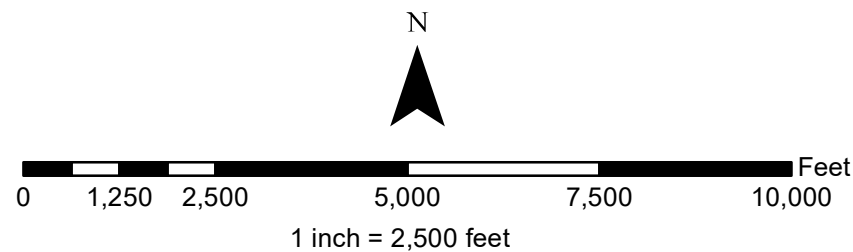
7.0 REFERENCES

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FIGURES



Legend	
	North Ash Management Unit (NAMU) Boundary
	Gypsum Storage Area (GSA) Boundary
	Ash Pond B Boundary
	Property Boundary (Approximate)



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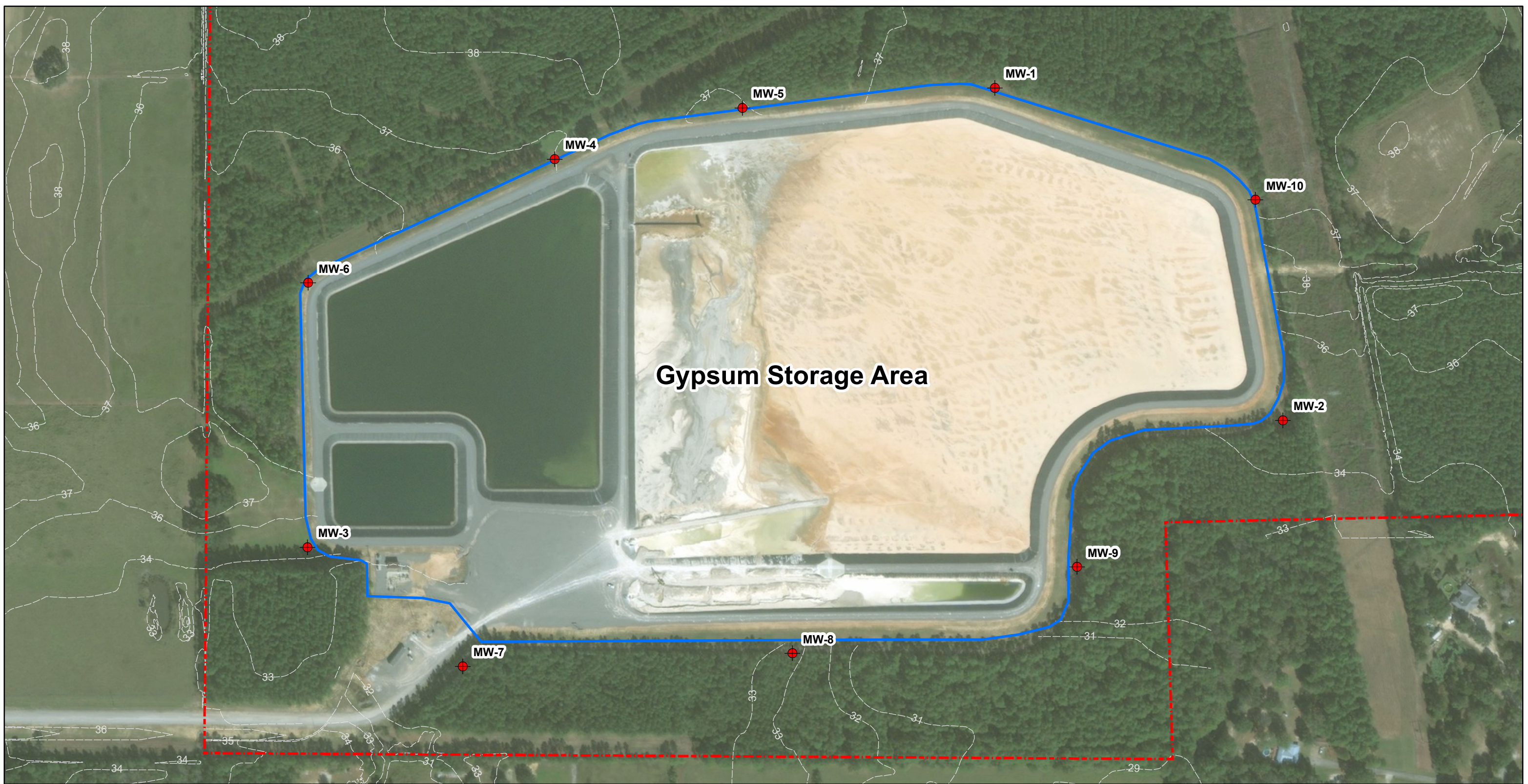
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Mississippi Power Company

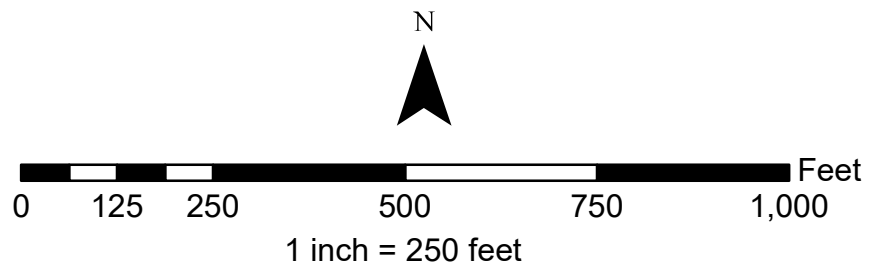
**PLANT DANIEL
GYPSUM STORAGE AREA
FIGURE 1
SITE LOCATION MAP**

Drawing Number ES4056S1



Legend

- Monitoring Well Location
- Gypsum Storage Area (GSA) Boundary
- Property Boundary (Approximate)
- Topographic Contour



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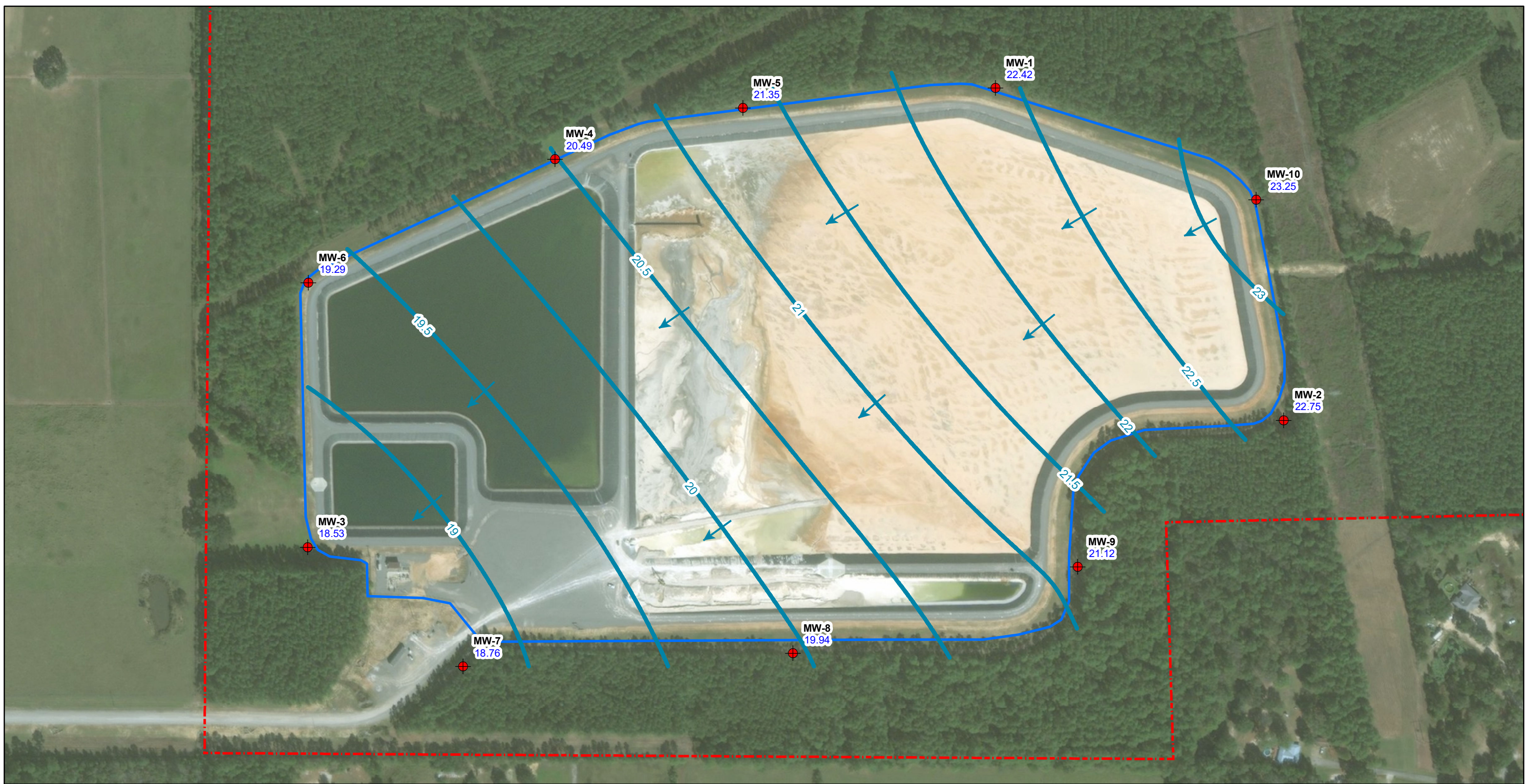
**PLANT DANIEL
GYPSUM STORAGE AREA
FIGURE 2
SITE PLAN AND WELL LOCATION MAP**

**Southern Company Services
Earth Science and Environmental Engineering**

FOR

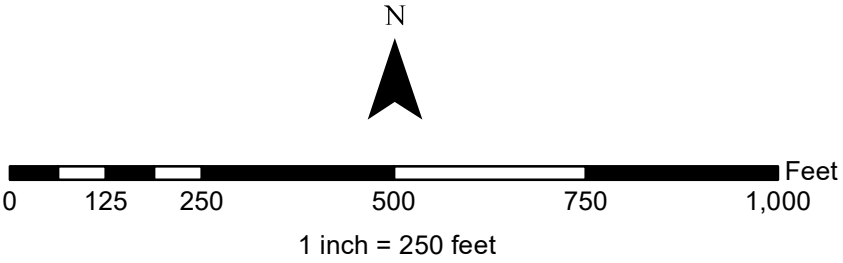
Mississippi Power Company

Drawing Number ES4056S2



Legend

- Monitoring Well Location
- Estimated Potentiometric Surface
- Approximate Groundwater Flow Direction
- Gypsum Storage Area (GSA) Boundary
- Property Boundary (Approximate)



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**PLANT DANIEL
GYPSUM STORAGE AREA
FIGURE 3
POTENTIOMETRIC SURFACE
CONTOUR MAP - OCTOBER 2017**

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FOR

Mississippi Power Company

Drawing Number ES4056S3

APPENDIX - A
ANALYTICAL RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-119192-1

TestAmerica Sample Delivery Group: Mississippi

Client Project/Site: CCR -Plant Daniel

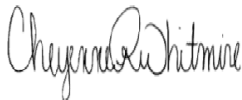
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

4/25/2016 4:20:31 PM

Cheyenne Whitmire, Project Manager II

(850)474-1001

cheyenne.whitmire@testamericainc.com

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results through

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Job ID: 400-119192-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-119192-1

RAD

Method(s) PrecSep_0: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/DUP) associated with Ra228 batch(243092).

Method(s) PrecSep-21: Radium-226 Prep Batch 160-242272: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-1 (400-119192-1), MW-2 (400-119192-2), MW-3 (400-119192-3), MW-4 (400-119192-4), MW-5 (400-119192-5), MW-6 (400-119192-6), MW-7 (400-119192-7), MW-8 (400-119192-8), MW-9 (400-119192-9), MW-10 (400-119192-10), MW-12 (400-119192-11), MW-13 (400-119192-12), MW-15 (400-119192-13), MW-16 (400-119192-14), MW-17 (400-119192-15), MW-18 (400-119192-16), EB-01 (400-119192-17), FB-01 (400-119192-18), DUP-01 (400-119192-19) and DUP-02 (400-119192-20). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead.

Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 298973 and analytical batch 300530 were outside control limits for Lithium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7470A: The method blank for prep batch 300994 contained Mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

General Chemistry

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 299114 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 Cl- E: The sample duplicate precision for the following sample associated with analytical batch 299119 was outside control limits: (400-119192-A-8 DU). Non-homogeneity of the sample matrix is suspected. interference suspected The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Method(s) SM 4500 Cl- E: The sample duplicate precision for the following sample associated with analytical batch 299259 was outside control limits: (400-119192-A-28 DU). Non-homogeneity of the sample matrix is suspected. interference suspected. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-1

Lab Sample ID: 400-119192-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.22		0.0025	0.00049	mg/L	5		6020	Total
Beryllium	0.00046	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	6.6		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0044		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00065	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium	0.000090	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Mercury	0.00013	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	60		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.0	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.97				SU	1		Field Sampling	Total/NA
Field Temperature	20.38				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-119192-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.044		0.0025	0.00049	mg/L	5		6020	Total
Calcium	0.87		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00084	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00018	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	28		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.81				SU	1		Field Sampling	Total/NA
Field Temperature	19.82				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-119192-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total
Calcium	1.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0020	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00038	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	22		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	4.51				SU	1		Field Sampling	Total/NA
Field Temperature	20.74				Centigrade	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-4

Lab Sample ID: 400-119192-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.052		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.6		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0015	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	26		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.7		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.87				SU	1		Field Sampling	Total/NA
Field Temperature	21.05				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-119192-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.066		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.1		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00096	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	36		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	10		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.79				SU	1		Field Sampling	Total/NA
Field Temperature	20.71				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-119192-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.076		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.4		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0027		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Chloride	8.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.9	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.68				SU	1		Field Sampling	Total/NA
Field Temperature	21.01				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-119192-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.16		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00044	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0025		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 400-119192-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	52		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	17		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.46				SU	1		Field Sampling	Total/NA
Field Temperature	20.34				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-119192-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0015	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	9.7		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.97				SU	1		Field Sampling	Total/NA
Field Temperature	20.08				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-119192-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.043		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.94		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0011	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	30		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.1		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.85				SU	1		Field Sampling	Total/NA
Field Temperature	19.71				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-119192-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0011	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Barium	0.041		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.7		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00064	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0038	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Mercury	0.00016	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	26		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	5.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	5.34				SU	1		Field Sampling	Total/NA
Field Temperature	20.69				Centigrade	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-12

Lab Sample ID: 400-119192-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.13		0.0025	0.00049	mg/L	5		6020	Total
Beryllium	0.00038	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Boron	0.034	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	0.14	J	0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0028		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0054		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	64		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	13		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	12		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.23				SU	1		Field Sampling	Total/NA
Field Temperature	18.76				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-119192-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total
Boron	0.022	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	16		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00067	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.010		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Mercury	0.00022	B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	140		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	19		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	12		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.07				SU	1		Field Sampling	Total/NA
Field Temperature	19.89				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 400-119192-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.052		0.0025	0.00049	mg/L	5		6020	Total
Calcium	1.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0012	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0039	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.00030	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-15 (Continued)

Lab Sample ID: 400-119192-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	34		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.4		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.77				SU	1		Field Sampling	Total/NA
Field Temperature	22.12				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 400-119192-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.029		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.61		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00091	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00018	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.68				SU	1		Field Sampling	Total/NA
Field Temperature	21.03				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 400-119192-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00046	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.032		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.4		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00086	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.89				SU	1		Field Sampling	Total/NA
Field Temperature	20.12				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: MW-18

Lab Sample ID: 400-119192-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.060		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.93		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0014	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00016	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	28		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	3.0	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.63				SU	1		Field Sampling	Total/NA
Field Temperature	21.44				Centigrade	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: EB-01

Lab Sample ID: 400-119192-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 400-119192-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-119192-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0016	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Mercury	0.00016	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	38		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.97				SU	1		Field Sampling	Total/NA
Field Temperature	20.08				Centigrade	1		Field Sampling	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 400-119192-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0011	J	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Barium	0.050		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0012	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lithium	0.0034	J	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.00033	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Mercury	0.00017	J B	0.00020	0.000070	mg/L	1		7470A	Total/NA
Total Dissolved Solids	36		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.77				SU	1		Field Sampling	Total/NA
Field Temperature	22.12				Centigrade	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
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
Field Sampling	Field Sampling	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

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 PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-119192-1	MW-1	Water	03/22/16 12:21	03/23/16 09:05
400-119192-2	MW-2	Water	03/22/16 08:51	03/23/16 09:05
400-119192-3	MW-3	Water	03/22/16 08:55	03/23/16 09:05
400-119192-4	MW-4	Water	03/22/16 11:45	03/23/16 09:05
400-119192-5	MW-5	Water	03/22/16 13:05	03/23/16 09:05
400-119192-6	MW-6	Water	03/22/16 10:25	03/23/16 09:05
400-119192-7	MW-7	Water	03/21/16 15:25	03/23/16 09:05
400-119192-8	MW-8	Water	03/21/16 17:40	03/23/16 09:05
400-119192-9	MW-9	Water	03/21/16 18:45	03/23/16 09:05
400-119192-10	MW-10	Water	03/22/16 11:21	03/23/16 09:05
400-119192-11	MW-12	Water	03/22/16 15:46	03/23/16 09:05
400-119192-12	MW-13	Water	03/22/16 16:41	03/23/16 09:05
400-119192-13	MW-15	Water	03/22/16 14:45	03/23/16 09:05
400-119192-14	MW-16	Water	03/22/16 17:40	03/23/16 09:05
400-119192-15	MW-17	Water	03/22/16 17:05	03/23/16 09:05
400-119192-16	MW-18	Water	03/22/16 15:50	03/23/16 09:05
400-119192-17	EB-01	Water	03/22/16 14:49	03/23/16 09:05
400-119192-18	FB-01	Water	03/22/16 15:02	03/23/16 09:05
400-119192-19	DUP-01	Water	03/21/16 16:40	03/23/16 09:05
400-119192-20	DUP-02	Water	03/22/16 13:45	03/23/16 09:05

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-1
Date Collected: 03/22/16 12:21
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 20:26	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 20:26	5
Barium	0.22		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 20:26	5
Beryllium	0.00046	J	0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 20:26	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 20:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 20:26	5
Calcium	6.6		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 20:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 20:26	5
Cobalt	0.0044		0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 20:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 20:26	5
Lithium	<0.0032	F1	0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 20:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 20:26	5
Selenium	0.00065	J	0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 20:26	5
Thallium	0.000090	J	0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 20:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00013	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	11		2.0	0.60	mg/L			03/26/16 13:53	1
Fluoride	0.040	J	0.10	0.032	mg/L			04/11/16 17:46	1
Sulfate	4.0	J	5.0	1.4	mg/L			03/26/16 11:47	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.53		0.312	0.387	1.00	0.169	pCi/L	03/25/16 14:47	04/18/16 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	48.4		40 - 110					03/25/16 14:47	04/18/16 07:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.11		0.693	0.790	1.00	0.740	pCi/L	03/31/16 21:51	04/14/16 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	48.4		40 - 110					03/31/16 21:51	04/14/16 11:06	1
Y Carrier	88.6		40 - 110					03/31/16 21:51	04/14/16 11:06	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	6.64		0.760	0.879	5.00	0.740	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-1
Date Collected: 03/22/16 12:21
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-1
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.97				SU			03/22/16 12:21	1
Field Temperature	20.38				Centigrade			03/22/16 12:21	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-2
Date Collected: 03/22/16 08:51
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:02	5
Barium	0.044		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:02	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:02	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:02	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:02	5
Calcium	0.87		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:02	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:02	5
Cobalt	0.00084	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:02	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:02	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:02	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:02	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:02	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:02	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/06/16 15:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	28		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	7.6		2.0	0.60	mg/L			03/26/16 13:53	1
Fluoride	<0.032		0.10	0.032	mg/L			04/11/16 17:54	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 11:47	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.378		0.103	0.109	1.00	0.0963	pCi/L	03/25/16 14:47	04/18/16 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					03/25/16 14:47	04/18/16 07:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.450		0.261	0.265	1.00	0.397	pCi/L	03/31/16 21:51	04/14/16 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					03/31/16 21:51	04/14/16 11:06	1
Y Carrier	83.7		40 - 110					03/31/16 21:51	04/14/16 11:06	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Client Sample ID: MW-2
Date Collected: 03/22/16 08:51
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-2
Matrix: Water

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	0.828		0.281	0.286	5.00	0.397	pCi/L		04/20/16 19:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.81				SU			03/22/16 08:51	1
Field Temperature	19.82				Centigrade			03/22/16 08:51	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-3
Date Collected: 03/22/16 08:55
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:07	5
Barium	0.11		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:07	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:07	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:07	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:07	5
Calcium	1.2		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:07	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:07	5
Cobalt	0.0020	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:07	5
Lead	0.00038	J	0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:07	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:07	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:07	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:07	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:07	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/06/16 15:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	11		2.0	0.60	mg/L			03/26/16 13:53	1
Fluoride	0.040	J	0.10	0.032	mg/L			04/11/16 18:01	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 11:47	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.953		0.151	0.173	1.00	0.0937	pCi/L	03/25/16 14:47	04/18/16 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.4		40 - 110					03/25/16 14:47	04/18/16 07:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.14		0.288	0.306	1.00	0.348	pCi/L	03/31/16 21:51	04/14/16 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.4		40 - 110					03/31/16 21:51	04/14/16 11:06	1
Y Carrier	83.4		40 - 110					03/31/16 21:51	04/14/16 11:06	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Client Sample ID: MW-3
Date Collected: 03/22/16 08:55
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-3
Matrix: Water

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	2.09		0.325	0.352	5.00	0.348	pCi/L		04/20/16 19:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.51				SU			03/22/16 08:55	1
Field Temperature	20.74				Centigrade			03/22/16 08:55	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-4
Date Collected: 03/22/16 11:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:11	5
Barium	0.052		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:11	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:11	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:11	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:11	5
Calcium	1.6		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:11	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:11	5
Cobalt	0.0015	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:11	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:11	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:11	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:11	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:11	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:11	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/06/16 15:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	7.7		2.0	0.60	mg/L			03/26/16 13:53	1
Fluoride	<0.032		0.10	0.032	mg/L			04/11/16 18:04	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 11:47	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.407		0.107	0.114	1.00	0.101	pCi/L	03/25/16 14:47	04/18/16 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					03/25/16 14:47	04/18/16 07:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.721		0.279	0.287	1.00	0.395	pCi/L	03/31/16 21:51	04/14/16 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					03/31/16 21:51	04/14/16 11:06	1
Y Carrier	85.6		40 - 110					03/31/16 21:51	04/14/16 11:06	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Client Sample ID: MW-4
Date Collected: 03/22/16 11:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-4
Matrix: Water

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	1.13		0.299	0.308	5.00	0.395	pCi/L		04/20/16 19:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.87				SU			03/22/16 11:45	1
Field Temperature	21.05				Centigrade			03/22/16 11:45	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-5
Date Collected: 03/22/16 13:05
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:16	5
Barium	0.066		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:16	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:16	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:16	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:16	5
Calcium	2.1		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:16	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:16	5
Cobalt	0.00096	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:16	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:16	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:16	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:16	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:16	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:16	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/06/16 15:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	10		2.0	0.60	mg/L			03/26/16 13:53	1
Fluoride	<0.032		0.10	0.032	mg/L			04/11/16 18:07	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:35	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.590		0.117	0.128	1.00	0.0709	pCi/L	03/25/16 14:47	04/18/16 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					03/25/16 14:47	04/18/16 07:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.838		0.272	0.283	1.00	0.364	pCi/L	03/31/16 21:51	04/14/16 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					03/31/16 21:51	04/14/16 11:06	1
Y Carrier	89.7		40 - 110					03/31/16 21:51	04/14/16 11:06	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Client Sample ID: MW-5
Date Collected: 03/22/16 13:05
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-5
Matrix: Water

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	1.43		0.296	0.311	5.00	0.364	pCi/L		04/20/16 19:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.79				SU			03/22/16 13:05	1
Field Temperature	20.71				Centigrade			03/22/16 13:05	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-6
Date Collected: 03/22/16 10:25
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:20	5
Barium	0.076		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:20	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:20	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:20	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:20	5
Calcium	1.4		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:20	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:20	5
Cobalt	0.0027		0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:20	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:20	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:20	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:20	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:20	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:20	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/06/16 15:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	8.3		2.0	0.60	mg/L			03/26/16 13:53	1
Fluoride	<0.032		0.10	0.032	mg/L			04/11/16 18:10	1
Sulfate	2.9	J	5.0	1.4	mg/L			03/26/16 14:35	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.549		0.114	0.124	1.00	0.0789	pCi/L	03/25/16 14:47	04/18/16 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					03/25/16 14:47	04/18/16 07:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.598		0.236	0.242	1.00	0.324	pCi/L	03/31/16 21:51	04/14/16 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					03/31/16 21:51	04/14/16 11:06	1
Y Carrier	82.2		40 - 110					03/31/16 21:51	04/14/16 11:06	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Client Sample ID: MW-6
Date Collected: 03/22/16 10:25
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-6
Matrix: Water

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	1.15		0.262	0.272	5.00	0.324	pCi/L		04/20/16 19:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.68				SU			03/22/16 10:25	1
Field Temperature	21.01				Centigrade			03/22/16 10:25	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-7
Date Collected: 03/21/16 15:25
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:25	5
Barium	0.16		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:25	5
Beryllium	0.00044	J	0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:25	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:25	5
Calcium	1.9		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:25	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:25	5
Cobalt	0.0025		0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:25	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:25	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:25	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:25	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:25	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/06/16 15:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	17		2.0	0.60	mg/L			03/26/16 13:53	1
Fluoride	<0.032		0.10	0.032	mg/L			04/11/16 18:14	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:35	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.16		0.164	0.194	1.00	0.0756	pCi/L	03/25/16 14:47	04/18/16 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					03/25/16 14:47	04/18/16 07:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.319	0.345	1.00	0.359	pCi/L	03/31/16 21:51	04/14/16 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					03/31/16 21:51	04/14/16 11:06	1
Y Carrier	81.1		40 - 110					03/31/16 21:51	04/14/16 11:06	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Client Sample ID: MW-7
Date Collected: 03/21/16 15:25
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-7
Matrix: Water

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	2.60		0.359	0.396	5.00	0.359	pCi/L		04/20/16 19:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.46				SU			03/21/16 15:25	1
Field Temperature	20.34				Centigrade			03/21/16 15:25	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-8
Date Collected: 03/21/16 17:40
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:29	5
Barium	0.11		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:29	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:29	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:29	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:29	5
Calcium	2.9		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:29	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:29	5
Cobalt	0.0015	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:29	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:29	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:29	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:29	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:29	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:29	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/06/16 15:39	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	9.7		2.0	0.60	mg/L			03/26/16 13:53	1
Fluoride	<0.032		0.10	0.032	mg/L			04/11/16 18:17	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:35	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.744		0.144	0.159	1.00	0.126	pCi/L	03/25/16 14:47	04/18/16 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					03/25/16 14:47	04/18/16 07:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.31		0.302	0.325	1.00	0.349	pCi/L	03/31/16 21:51	04/14/16 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		40 - 110					03/31/16 21:51	04/14/16 11:06	1
Y Carrier	82.6		40 - 110					03/31/16 21:51	04/14/16 11:06	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Client Sample ID: MW-8
Date Collected: 03/21/16 17:40
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-8
Matrix: Water

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	2.05		0.334	0.362	5.00	0.349	pCi/L		04/20/16 19:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.97				SU			03/21/16 17:40	1
Field Temperature	20.08				Centigrade			03/21/16 17:40	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-9
Date Collected: 03/21/16 18:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:34	5
Barium	0.043		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:34	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:34	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:34	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:34	5
Calcium	0.94		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:34	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:34	5
Cobalt	0.0011	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:34	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:34	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:34	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:34	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:34	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:34	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/06/16 15:43	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	7.1		2.0	0.60	mg/L			03/26/16 13:56	1
Fluoride	<0.032		0.10	0.032	mg/L			04/11/16 18:20	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:35	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.362		0.0983	0.104	1.00	0.0907	pCi/L	03/25/16 14:47	04/18/16 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					03/25/16 14:47	04/18/16 07:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.304	U	0.246	0.247	1.00	0.391	pCi/L	03/31/16 21:51	04/14/16 11:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					03/31/16 21:51	04/14/16 11:06	1
Y Carrier	81.9		40 - 110					03/31/16 21:51	04/14/16 11:06	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Client Sample ID: MW-9
Date Collected: 03/21/16 18:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-9
Matrix: Water

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	0.666		0.264	0.268	5.00	0.391	pCi/L		04/20/16 19:30	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.85				SU			03/21/16 18:45	1
Field Temperature	19.71				Centigrade			03/21/16 18:45	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-10
Date Collected: 03/22/16 11:21
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0011	J	0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 21:52	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:52	5
Barium	0.041		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:52	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:52	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:52	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:52	5
Calcium	2.7		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:52	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:52	5
Cobalt	0.00064	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:52	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:52	5
Lithium	0.0038	J	0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:52	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:52	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:52	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:52	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	5.2		2.0	0.60	mg/L			03/26/16 13:56	1
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 11:03	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:35	1

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		0.0850	0.0886	1.00	0.0713	pCi/L	03/25/16 14:47	04/18/16 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/25/16 14:47	04/18/16 07:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.230	0.231	1.00	0.375	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	79.3		40 - 110					03/31/16 21:51	04/14/16 11:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.498		0.245	0.247	5.00	0.375	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-10
Date Collected: 03/22/16 11:21
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-10
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.34				SU			03/22/16 11:21	1
Field Temperature	20.69				Centigrade			03/22/16 11:21	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-12
Date Collected: 03/22/16 15:46
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 21:56	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 21:56	5
Barium	0.13		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 21:56	5
Beryllium	0.00038	J	0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:56	5
Boron	0.034	J	0.050	0.021	mg/L		03/25/16 12:00	04/05/16 21:56	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 21:56	5
Calcium	0.14	J	0.25	0.13	mg/L		03/25/16 12:00	04/05/16 21:56	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 21:56	5
Cobalt	0.0028		0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 21:56	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 21:56	5
Lithium	0.0054		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 21:56	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 21:56	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 21:56	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 21:56	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		5.0	3.4	mg/L			03/24/16 12:37	1
Chloride	13		2.0	0.60	mg/L			03/26/16 13:56	1
Fluoride	0.19		0.10	0.032	mg/L			04/12/16 11:10	1
Sulfate	12		5.0	1.4	mg/L			03/26/16 14:35	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.867		0.141	0.161	1.00	0.0780	pCi/L	03/25/16 14:47	04/18/16 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/25/16 14:47	04/18/16 07:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.983		0.282	0.296	1.00	0.349	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	77.8		40 - 110					03/31/16 21:51	04/14/16 11:07	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	1.85		0.315	0.337	5.00	0.349	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-12
Date Collected: 03/22/16 15:46
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-11
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.23				SU			03/22/16 15:46	1
Field Temperature	18.76				Centigrade			03/22/16 15:46	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-13
Date Collected: 03/22/16 16:41
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 22:01	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 22:01	5
Barium	0.11		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 22:01	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:01	5
Boron	0.022	J	0.050	0.021	mg/L		03/25/16 12:00	04/05/16 22:01	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:01	5
Calcium	16		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 22:01	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 22:01	5
Cobalt	0.00067	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 22:01	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 22:01	5
Lithium	0.010		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 22:01	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 22:01	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 22:01	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 22:01	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022	B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		5.0	3.4	mg/L			03/24/16 12:37	1
Chloride	19		2.0	0.60	mg/L			03/26/16 13:56	1
Fluoride	0.040	J	0.10	0.032	mg/L			04/12/16 11:12	1
Sulfate	12		5.0	1.4	mg/L			03/26/16 14:35	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.223		0.0766	0.0792	1.00	0.0710	pCi/L	03/25/16 14:47	04/18/16 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					03/25/16 14:47	04/18/16 07:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0350	U	0.204	0.204	1.00	0.362	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	77.4		40 - 110					03/31/16 21:51	04/14/16 11:07	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	0.258	U	0.218	0.219	5.00	0.362	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-13
Date Collected: 03/22/16 16:41
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-12
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.07				SU			03/22/16 16:41	1
Field Temperature	19.89				Centigrade			03/22/16 16:41	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-15
Date Collected: 03/22/16 14:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-13
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 22:05	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 22:05	5
Barium	0.052		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 22:05	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:05	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 22:05	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:05	5
Calcium	1.3		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 22:05	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 22:05	5
Cobalt	0.0012	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 22:05	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 22:05	5
Lithium	0.0039	J	0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 22:05	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 22:05	5
Selenium	0.00030	J	0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 22:05	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 22:05	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	3.4	mg/L			03/24/16 12:37	1
Chloride	8.4		2.0	0.60	mg/L			03/26/16 13:56	1
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 11:15	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:42	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.300		0.0900	0.0940	1.00	0.0840	pCi/L	03/25/16 14:47	04/18/16 07:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		40 - 110					03/25/16 14:47	04/18/16 07:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.316	U	0.228	0.230	1.00	0.354	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	78.9		40 - 110					03/31/16 21:51	04/14/16 11:07	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	0.616		0.245	0.248	5.00	0.354	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Client Sample ID: MW-15
Date Collected: 03/22/16 14:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-13
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.77				SU			03/22/16 14:45	1
Field Temperature	22.12				Centigrade			03/22/16 14:45	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-16
Date Collected: 03/22/16 17:40
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-14
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 22:10	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 22:10	5
Barium	0.029		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 22:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:10	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 22:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:10	5
Calcium	0.61		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 22:10	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 22:10	5
Cobalt	0.00091	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 22:10	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 22:10	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 22:10	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 22:10	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 22:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 22:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00018	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			03/24/16 12:37	1
Chloride	6.9		2.0	0.60	mg/L			03/26/16 13:56	1
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 11:18	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:42	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.171		0.0761	0.0776	1.00	0.0870	pCi/L	03/25/16 14:47	04/18/16 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		40 - 110					03/25/16 14:47	04/18/16 07:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.242	U	0.260	0.261	1.00	0.426	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	81.9		40 - 110					03/31/16 21:51	04/14/16 11:07	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	0.271	0.273	5.00	0.426	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-16
Date Collected: 03/22/16 17:40
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-14
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.68				SU			03/22/16 17:40	1
Field Temperature	21.03				Centigrade			03/22/16 17:40	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-17
Date Collected: 03/22/16 17:05
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-15
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 22:14	5
Arsenic	0.00046	J	0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 22:14	5
Barium	0.032		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 22:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:14	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 22:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:14	5
Calcium	1.4		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 22:14	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 22:14	5
Cobalt	0.00086	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 22:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 22:14	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 22:14	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 22:14	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 22:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 22:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			03/24/16 12:37	1
Chloride	7.3		2.0	0.60	mg/L			03/26/16 13:56	1
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 11:21	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:42	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.230		0.0833	0.0858	1.00	0.0858	pCi/L	03/25/16 14:47	04/18/16 16:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/25/16 14:47	04/18/16 16:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.176	U	0.220	0.221	1.00	0.365	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	80.4		40 - 110					03/31/16 21:51	04/14/16 11:07	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	0.406		0.235	0.237	5.00	0.365	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-17
Date Collected: 03/22/16 17:05
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-15
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.89				SU			03/22/16 17:05	1
Field Temperature	20.12				Centigrade			03/22/16 17:05	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-18
Date Collected: 03/22/16 15:50
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-16
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 22:19	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 22:19	5
Barium	0.060		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 22:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:19	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 22:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:19	5
Calcium	0.93		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 22:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 22:19	5
Cobalt	0.0014	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 22:19	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 22:19	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 22:19	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 22:19	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 22:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 22:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	28		5.0	3.4	mg/L			03/24/16 12:37	1
Chloride	11		2.0	0.60	mg/L			03/26/16 13:56	1
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 11:25	1
Sulfate	3.0	J	5.0	1.4	mg/L			03/26/16 14:42	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.430		0.117	0.123	1.00	0.125	pCi/L	03/25/16 14:47	04/18/16 16:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					03/25/16 14:47	04/18/16 16:50	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.393		0.250	0.253	1.00	0.385	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	81.5		40 - 110					03/31/16 21:51	04/14/16 11:07	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	0.823		0.276	0.281	5.00	0.385	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-18
Date Collected: 03/22/16 15:50
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-16
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.63				SU			03/22/16 15:50	1
Field Temperature	21.44				Centigrade			03/22/16 15:50	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: EB-01
Date Collected: 03/22/16 14:49
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-17
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 22:23	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 22:23	5
Barium	<0.00049		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 22:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:23	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 22:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:23	5
Calcium	<0.13		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 22:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 22:23	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 22:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 22:23	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 22:23	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 22:23	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 22:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 22:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/24/16 12:37	1
Chloride	<0.60		2.0	0.60	mg/L			03/26/16 13:56	1
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 11:27	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:42	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00102	U	0.0387	0.0387	1.00	0.0794	pCi/L	03/25/16 14:47	04/18/16 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/25/16 14:47	04/18/16 16:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.129	U	0.219	0.220	1.00	0.371	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	78.9		40 - 110					03/31/16 21:51	04/14/16 11:07	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	0.128	U	0.223	0.223	5.00	0.371	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: FB-01
Date Collected: 03/22/16 15:02
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-18
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 22:28	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 22:28	5
Barium	<0.00049		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 22:28	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:28	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 22:28	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:28	5
Calcium	<0.13		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 22:28	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 22:28	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 22:28	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 22:28	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 22:28	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 22:28	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 22:28	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 22:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/24/16 12:37	1
Chloride	<0.60		2.0	0.60	mg/L			03/26/16 14:01	1
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 11:40	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:42	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0315	U	0.0444	0.0445	1.00	0.0753	pCi/L	03/25/16 14:47	04/18/16 16:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					03/25/16 14:47	04/18/16 16:51	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.370		0.220	0.223	1.00	0.332	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	81.9		40 - 110					03/31/16 21:51	04/14/16 11:07	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	0.402		0.225	0.227	5.00	0.332	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: DUP-01
Date Collected: 03/21/16 16:40
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-19
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 22:32	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 22:32	5
Barium	0.11		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 22:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:32	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 22:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:32	5
Calcium	2.9		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 22:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 22:32	5
Cobalt	0.0016	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 22:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 22:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 22:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 22:32	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 22:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 22:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00016	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	38		5.0	3.4	mg/L			03/24/16 11:31	1
Chloride	8.9		2.0	0.60	mg/L			03/28/16 12:05	1
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 11:44	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:42	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.703		0.138	0.152	1.00	0.0954	pCi/L	03/25/16 14:47	04/18/16 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					03/25/16 14:47	04/18/16 17:04	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		0.330	0.344	1.00	0.427	pCi/L	03/31/16 21:51	04/14/16 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					03/31/16 21:51	04/14/16 11:07	1
Y Carrier	81.1		40 - 110					03/31/16 21:51	04/14/16 11:07	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	1.74		0.358	0.376	5.00	0.427	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: DUP-01
Date Collected: 03/21/16 16:40
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-19
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.97				SU			03/21/16 16:40	1
Field Temperature	20.08				Centigrade			03/21/16 16:40	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: DUP-02
Date Collected: 03/22/16 13:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-20
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0011	J	0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 22:50	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 22:50	5
Barium	0.050		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 22:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:50	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 22:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 22:50	5
Calcium	1.2		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 22:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 22:50	5
Cobalt	0.0012	J	0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 22:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 22:50	5
Lithium	0.0034	J	0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 22:50	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 22:50	5
Selenium	0.00033	J	0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 22:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 22:50	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J B	0.00020	0.000070	mg/L		04/08/16 16:02	04/11/16 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	3.4	mg/L			03/24/16 12:37	1
Chloride	7.9		2.0	0.60	mg/L			03/28/16 12:05	1
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 12:05	1
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 14:42	1

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		0.0851	0.0894	1.00	0.0692	pCi/L	03/25/16 14:47	04/18/16 17:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					03/25/16 14:47	04/18/16 17:05	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.549		0.248	0.253	1.00	0.357	pCi/L	03/31/16 21:51	04/14/16 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					03/31/16 21:51	04/14/16 11:12	1
Y Carrier	82.2		40 - 110					03/31/16 21:51	04/14/16 11:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.854		0.262	0.269	5.00	0.357	pCi/L		04/20/16 19:30	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: DUP-02
Date Collected: 03/22/16 13:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-20
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.77				SU			03/22/16 13:45	1
Field Temperature	22.12				Centigrade			03/22/16 13:45	1

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Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
F1	MS and/or MSD Recovery is outside acceptance limits.

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-1
Date Collected: 03/22/16 12:21
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 20:26	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 10:57	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:53	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301246	04/11/16 17:46	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299114	03/26/16 11:47	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:06	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 12:21	BWS	TAL PEN

Client Sample ID: MW-2
Date Collected: 03/22/16 08:51
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:02	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	300704	04/06/16 15:12	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 10:58	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:53	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301246	04/11/16 17:54	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299114	03/26/16 11:47	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:06	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 08:51	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-3
Date Collected: 03/22/16 08:55
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:07	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	300704	04/06/16 15:16	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 11:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:53	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301246	04/11/16 18:01	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299114	03/26/16 11:47	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:06	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 08:55	BWS	TAL PEN

Client Sample ID: MW-4
Date Collected: 03/22/16 11:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:11	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	300704	04/06/16 15:21	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 11:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:53	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301246	04/11/16 18:04	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299114	03/26/16 11:47	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:06	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 11:45	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-5
Date Collected: 03/22/16 13:05
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:16	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	300704	04/06/16 15:25	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 11:54	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:53	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301246	04/11/16 18:07	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:35	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:30	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:06	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 13:05	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 03/22/16 10:25
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:20	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	300704	04/06/16 15:30	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 11:55	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:53	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301246	04/11/16 18:10	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:35	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:06	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 10:25	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-7
Date Collected: 03/21/16 15:25
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:25	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	300704	04/06/16 15:34	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 11:56	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:53	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301246	04/11/16 18:14	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:35	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:06	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/21/16 15:25	BWS	TAL PEN

Client Sample ID: MW-8
Date Collected: 03/21/16 17:40
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:29	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	300704	04/06/16 15:39	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 11:57	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:53	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301246	04/11/16 18:17	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:35	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:06	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/21/16 17:40	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-9
Date Collected: 03/21/16 18:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:34	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	300704	04/06/16 15:43	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 11:59	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301246	04/11/16 18:20	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:35	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:06	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/21/16 18:45	BWS	TAL PEN

Client Sample ID: MW-10
Date Collected: 03/22/16 11:21
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:52	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:00	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:03	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:35	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 11:21	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-12
Date Collected: 03/22/16 15:46
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 21:56	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298732	03/24/16 12:37	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	299119	03/26/16 13:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:10	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:35	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 15:46	BWS	TAL PEN

Client Sample ID: MW-13
Date Collected: 03/22/16 16:41
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 22:01	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:02	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298732	03/24/16 12:37	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	299119	03/26/16 13:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:12	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:35	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 16:41	BWS	TAL PEN

Client Sample ID: MW-15
Date Collected: 03/22/16 14:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 22:05	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-15
Date Collected: 03/22/16 14:45
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:12	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298732	03/24/16 12:37	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:15	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:42	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:31	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 14:45	BWS	TAL PEN

Client Sample ID: MW-16
Date Collected: 03/22/16 17:40
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 22:10	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298732	03/24/16 12:37	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299119	03/26/16 13:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:18	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:42	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 07:32	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 17:40	BWS	TAL PEN

Client Sample ID: MW-17
Date Collected: 03/22/16 17:05
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 22:14	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:15	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: MW-17

Lab Sample ID: 400-119192-15

Date Collected: 03/22/16 17:05

Matrix: Water

Date Received: 03/23/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	298732	03/24/16 12:37	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	299119	03/26/16 13:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:21	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:42	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246440	04/18/16 16:50	ALD	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 17:05	BWS	TAL PEN

Client Sample ID: MW-18

Lab Sample ID: 400-119192-16

Date Collected: 03/22/16 15:50

Matrix: Water

Date Received: 03/23/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 22:19	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298732	03/24/16 12:37	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	299119	03/26/16 13:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:25	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:42	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246440	04/18/16 16:50	ALD	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 15:50	BWS	TAL PEN

Client Sample ID: EB-01

Lab Sample ID: 400-119192-17

Date Collected: 03/22/16 14:49

Matrix: Water

Date Received: 03/23/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 22:23	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:17	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298732	03/24/16 12:37	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	299119	03/26/16 13:56	LSS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: EB-01
Date Collected: 03/22/16 14:49
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:27	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:42	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246440	04/18/16 16:51	ALD	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL

Client Sample ID: FB-01
Date Collected: 03/22/16 15:02
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 22:28	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:18	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298732	03/24/16 12:37	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	299119	03/26/16 14:01	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:40	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:42	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246440	04/18/16 16:51	ALD	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL

Client Sample ID: DUP-01
Date Collected: 03/21/16 16:40
Date Received: 03/23/16 09:05

Lab Sample ID: 400-119192-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 22:32	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:19	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298721	03/24/16 11:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	299259	03/28/16 12:05	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 11:44	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:42	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 17:04	ALS	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Client Sample ID: DUP-01

Lab Sample ID: 400-119192-19

Date Collected: 03/21/16 16:40

Matrix: Water

Date Received: 03/23/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245939	04/14/16 11:07	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/21/16 16:40	BWS	TAL PEN

Client Sample ID: DUP-02

Lab Sample ID: 400-119192-20

Date Collected: 03/22/16 13:45

Matrix: Water

Date Received: 03/23/16 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			298973	03/25/16 12:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	300530	04/05/16 22:50	RJB	TAL PEN
Total/NA	Prep	7470A			300994	04/08/16 16:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	301157	04/11/16 12:21	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	298732	03/24/16 12:37	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	299259	03/28/16 12:05	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	301346	04/12/16 12:05	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	299120	03/26/16 14:42	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			242272	03/25/16 14:47	MRB	TAL SL
Total/NA	Analysis	9315		1	246401	04/18/16 17:05	ALS	TAL SL
Total/NA	Prep	PrecSep_0			243092	03/31/16 21:51	CMC	TAL SL
Total/NA	Analysis	9320		1	245932	04/14/16 11:12	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	246969	04/20/16 19:30	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	302937	03/22/16 13:45	BWS	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

QC Association Summary

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Metals

Prep Batch: 298973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total Recoverable	Water	3005A	
400-119192-1 MS	MW-1	Total Recoverable	Water	3005A	
400-119192-1 MSD	MW-1	Total Recoverable	Water	3005A	
400-119192-2 - RA	MW-2	Total Recoverable	Water	3005A	
400-119192-2	MW-2	Total Recoverable	Water	3005A	
400-119192-3 - RA	MW-3	Total Recoverable	Water	3005A	
400-119192-3	MW-3	Total Recoverable	Water	3005A	
400-119192-4 - RA	MW-4	Total Recoverable	Water	3005A	
400-119192-4	MW-4	Total Recoverable	Water	3005A	
400-119192-5	MW-5	Total Recoverable	Water	3005A	
400-119192-5 - RA	MW-5	Total Recoverable	Water	3005A	
400-119192-6 - RA	MW-6	Total Recoverable	Water	3005A	
400-119192-6	MW-6	Total Recoverable	Water	3005A	
400-119192-7 - RA	MW-7	Total Recoverable	Water	3005A	
400-119192-7	MW-7	Total Recoverable	Water	3005A	
400-119192-8	MW-8	Total Recoverable	Water	3005A	
400-119192-8 - RA	MW-8	Total Recoverable	Water	3005A	
400-119192-9 - RA	MW-9	Total Recoverable	Water	3005A	
400-119192-9	MW-9	Total Recoverable	Water	3005A	
400-119192-10	MW-10	Total Recoverable	Water	3005A	
400-119192-11	MW-12	Total Recoverable	Water	3005A	
400-119192-12	MW-13	Total Recoverable	Water	3005A	
400-119192-13	MW-15	Total Recoverable	Water	3005A	
400-119192-14	MW-16	Total Recoverable	Water	3005A	
400-119192-15	MW-17	Total Recoverable	Water	3005A	
400-119192-16	MW-18	Total Recoverable	Water	3005A	
400-119192-17	EB-01	Total Recoverable	Water	3005A	
400-119192-18	FB-01	Total Recoverable	Water	3005A	
400-119192-19	DUP-01	Total Recoverable	Water	3005A	
400-119192-20	DUP-02	Total Recoverable	Water	3005A	
LCS 400-298973/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
MB 400-298973/1-A ^5	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 300530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total Recoverable	Water	6020	298973
400-119192-1 MS	MW-1	Total Recoverable	Water	6020	298973
400-119192-1 MSD	MW-1	Total Recoverable	Water	6020	298973
400-119192-2	MW-2	Total Recoverable	Water	6020	298973
400-119192-3	MW-3	Total Recoverable	Water	6020	298973
400-119192-4	MW-4	Total Recoverable	Water	6020	298973
400-119192-5	MW-5	Total Recoverable	Water	6020	298973
400-119192-6	MW-6	Total Recoverable	Water	6020	298973
400-119192-7	MW-7	Total Recoverable	Water	6020	298973
400-119192-8	MW-8	Total Recoverable	Water	6020	298973
400-119192-9	MW-9	Total Recoverable	Water	6020	298973
400-119192-10	MW-10	Total Recoverable	Water	6020	298973
400-119192-11	MW-12	Total Recoverable	Water	6020	298973
400-119192-12	MW-13	Total Recoverable	Water	6020	298973
400-119192-13	MW-15	Total Recoverable	Water	6020	298973
400-119192-14	MW-16	Total Recoverable	Water	6020	298973

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Metals (Continued)

Analysis Batch: 300530 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-15	MW-17	Total Recoverable	Water	6020	298973
400-119192-16	MW-18	Total Recoverable	Water	6020	298973
400-119192-17	EB-01	Total Recoverable	Water	6020	298973
400-119192-18	FB-01	Total Recoverable	Water	6020	298973
400-119192-19	DUP-01	Total Recoverable	Water	6020	298973
400-119192-20	DUP-02	Total Recoverable	Water	6020	298973
LCS 400-298973/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	298973
MB 400-298973/1-A ^5	Method Blank	Total Recoverable	Water	6020	298973
MRL 400-300530/21	Lab Control Sample	Total/NA	Water	6020	

Analysis Batch: 300704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-2 - RA	MW-2	Total Recoverable	Water	6020	298973
400-119192-3 - RA	MW-3	Total Recoverable	Water	6020	298973
400-119192-4 - RA	MW-4	Total Recoverable	Water	6020	298973
400-119192-5 - RA	MW-5	Total Recoverable	Water	6020	298973
400-119192-6 - RA	MW-6	Total Recoverable	Water	6020	298973
400-119192-7 - RA	MW-7	Total Recoverable	Water	6020	298973
400-119192-8 - RA	MW-8	Total Recoverable	Water	6020	298973
400-119192-9 - RA	MW-9	Total Recoverable	Water	6020	298973
MRL 400-300704/21	Lab Control Sample	Total/NA	Water	6020	

Prep Batch: 300994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total/NA	Water	7470A	
400-119192-2	MW-2	Total/NA	Water	7470A	
400-119192-2 MS	MW-2	Total/NA	Water	7470A	
400-119192-2 MSD	MW-2	Total/NA	Water	7470A	
400-119192-3	MW-3	Total/NA	Water	7470A	
400-119192-4	MW-4	Total/NA	Water	7470A	
400-119192-5	MW-5	Total/NA	Water	7470A	
400-119192-6	MW-6	Total/NA	Water	7470A	
400-119192-7	MW-7	Total/NA	Water	7470A	
400-119192-8	MW-8	Total/NA	Water	7470A	
400-119192-9	MW-9	Total/NA	Water	7470A	
400-119192-10	MW-10	Total/NA	Water	7470A	
400-119192-11	MW-12	Total/NA	Water	7470A	
400-119192-12	MW-13	Total/NA	Water	7470A	
400-119192-13	MW-15	Total/NA	Water	7470A	
400-119192-14	MW-16	Total/NA	Water	7470A	
400-119192-15	MW-17	Total/NA	Water	7470A	
400-119192-16	MW-18	Total/NA	Water	7470A	
400-119192-17	EB-01	Total/NA	Water	7470A	
400-119192-18	FB-01	Total/NA	Water	7470A	
400-119192-19	DUP-01	Total/NA	Water	7470A	
400-119192-20	DUP-02	Total/NA	Water	7470A	
LCS 400-300994/15-A	Lab Control Sample	Total/NA	Water	7470A	
MB 400-300994/14-A	Method Blank	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Metals (Continued)

Analysis Batch: 301157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total/NA	Water	7470A	300994
400-119192-2	MW-2	Total/NA	Water	7470A	300994
400-119192-2 MS	MW-2	Total/NA	Water	7470A	300994
400-119192-2 MSD	MW-2	Total/NA	Water	7470A	300994
400-119192-3	MW-3	Total/NA	Water	7470A	300994
400-119192-4	MW-4	Total/NA	Water	7470A	300994
400-119192-5	MW-5	Total/NA	Water	7470A	300994
400-119192-6	MW-6	Total/NA	Water	7470A	300994
400-119192-7	MW-7	Total/NA	Water	7470A	300994
400-119192-8	MW-8	Total/NA	Water	7470A	300994
400-119192-9	MW-9	Total/NA	Water	7470A	300994
400-119192-10	MW-10	Total/NA	Water	7470A	300994
400-119192-11	MW-12	Total/NA	Water	7470A	300994
400-119192-12	MW-13	Total/NA	Water	7470A	300994
400-119192-13	MW-15	Total/NA	Water	7470A	300994
400-119192-14	MW-16	Total/NA	Water	7470A	300994
400-119192-15	MW-17	Total/NA	Water	7470A	300994
400-119192-16	MW-18	Total/NA	Water	7470A	300994
400-119192-17	EB-01	Total/NA	Water	7470A	300994
400-119192-18	FB-01	Total/NA	Water	7470A	300994
400-119192-19	DUP-01	Total/NA	Water	7470A	300994
400-119192-20	DUP-02	Total/NA	Water	7470A	300994
LCS 400-300994/15-A	Lab Control Sample	Total/NA	Water	7470A	300994
MB 400-300994/14-A	Method Blank	Total/NA	Water	7470A	300994

General Chemistry

Analysis Batch: 298721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total/NA	Water	SM 2540C	
400-119192-2	MW-2	Total/NA	Water	SM 2540C	
400-119192-2 DU	MW-2	Total/NA	Water	SM 2540C	
400-119192-3	MW-3	Total/NA	Water	SM 2540C	
400-119192-4	MW-4	Total/NA	Water	SM 2540C	
400-119192-5	MW-5	Total/NA	Water	SM 2540C	
400-119192-6	MW-6	Total/NA	Water	SM 2540C	
400-119192-7	MW-7	Total/NA	Water	SM 2540C	
400-119192-8	MW-8	Total/NA	Water	SM 2540C	
400-119192-9	MW-9	Total/NA	Water	SM 2540C	
400-119192-10	MW-10	Total/NA	Water	SM 2540C	
400-119192-19	DUP-01	Total/NA	Water	SM 2540C	
LCS 400-298721/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 400-298721/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 298732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-11	MW-12	Total/NA	Water	SM 2540C	
400-119192-11 DU	MW-12	Total/NA	Water	SM 2540C	
400-119192-12	MW-13	Total/NA	Water	SM 2540C	
400-119192-13	MW-15	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

General Chemistry (Continued)

Analysis Batch: 298732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-14	MW-16	Total/NA	Water	SM 2540C	
400-119192-15	MW-17	Total/NA	Water	SM 2540C	
400-119192-16	MW-18	Total/NA	Water	SM 2540C	
400-119192-17	EB-01	Total/NA	Water	SM 2540C	
400-119192-18	FB-01	Total/NA	Water	SM 2540C	
400-119192-20	DUP-02	Total/NA	Water	SM 2540C	
LCS 400-298732/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 400-298732/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 299114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-119192-2	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-119192-3	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-119192-4	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-119266-F-5 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-119343-E-2 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-119343-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
LCS 400-299114/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-299114/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 299119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total/NA	Water	SM 4500 Cl- E	
400-119192-2	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-119192-2 MS	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-119192-2 MSD	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-119192-3	MW-3	Total/NA	Water	SM 4500 Cl- E	
400-119192-4	MW-4	Total/NA	Water	SM 4500 Cl- E	
400-119192-5	MW-5	Total/NA	Water	SM 4500 Cl- E	
400-119192-6	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-119192-7	MW-7	Total/NA	Water	SM 4500 Cl- E	
400-119192-8	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-119192-8 DU	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-119192-9	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-119192-10	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-119192-11	MW-12	Total/NA	Water	SM 4500 Cl- E	
400-119192-12	MW-13	Total/NA	Water	SM 4500 Cl- E	
400-119192-13	MW-15	Total/NA	Water	SM 4500 Cl- E	
400-119192-14	MW-16	Total/NA	Water	SM 4500 Cl- E	
400-119192-15	MW-17	Total/NA	Water	SM 4500 Cl- E	
400-119192-16	MW-18	Total/NA	Water	SM 4500 Cl- E	
400-119192-17	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-119192-18	FB-01	Total/NA	Water	SM 4500 Cl- E	
LCS 400-299119/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MB 400-299119/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 299120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-5	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-119192-6	MW-6	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

General Chemistry (Continued)

Analysis Batch: 299120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-7	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-119192-7 MS	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-119192-7 MSD	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-119192-8	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-119192-9	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-119192-10	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-119192-11	MW-12	Total/NA	Water	SM 4500 SO4 E	
400-119192-12	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-119192-13	MW-15	Total/NA	Water	SM 4500 SO4 E	
400-119192-14	MW-16	Total/NA	Water	SM 4500 SO4 E	
400-119192-14 DU	MW-16	Total/NA	Water	SM 4500 SO4 E	
400-119192-15	MW-17	Total/NA	Water	SM 4500 SO4 E	
400-119192-16	MW-18	Total/NA	Water	SM 4500 SO4 E	
400-119192-17	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-119192-18	FB-01	Total/NA	Water	SM 4500 SO4 E	
400-119192-19	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-119192-20	DUP-02	Total/NA	Water	SM 4500 SO4 E	
LCS 400-299120/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-299120/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 299259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-19	DUP-01	Total/NA	Water	SM 4500 CI- E	
400-119192-20	DUP-02	Total/NA	Water	SM 4500 CI- E	
400-119192-A-23 MS	Matrix Spike	Total/NA	Water	SM 4500 CI- E	
400-119192-A-23 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CI- E	
400-119192-A-28 DU	Duplicate	Total/NA	Water	SM 4500 CI- E	
LCS 400-299259/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MB 400-299259/6	Method Blank	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 301246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total/NA	Water	SM 4500 F C	
400-119192-2	MW-2	Total/NA	Water	SM 4500 F C	
400-119192-2 DU	MW-2	Total/NA	Water	SM 4500 F C	
400-119192-3	MW-3	Total/NA	Water	SM 4500 F C	
400-119192-4	MW-4	Total/NA	Water	SM 4500 F C	
400-119192-5	MW-5	Total/NA	Water	SM 4500 F C	
400-119192-6	MW-6	Total/NA	Water	SM 4500 F C	
400-119192-7	MW-7	Total/NA	Water	SM 4500 F C	
400-119192-8	MW-8	Total/NA	Water	SM 4500 F C	
400-119192-9	MW-9	Total/NA	Water	SM 4500 F C	
400-119928-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-119928-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
LCS 400-301246/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 400-301246/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 301346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-10	MW-10	Total/NA	Water	SM 4500 F C	
400-119192-10 MS	MW-10	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

General Chemistry (Continued)

Analysis Batch: 301346 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-10 MSD	MW-10	Total/NA	Water	SM 4500 F C	
400-119192-11	MW-12	Total/NA	Water	SM 4500 F C	
400-119192-12	MW-13	Total/NA	Water	SM 4500 F C	
400-119192-13	MW-15	Total/NA	Water	SM 4500 F C	
400-119192-14	MW-16	Total/NA	Water	SM 4500 F C	
400-119192-15	MW-17	Total/NA	Water	SM 4500 F C	
400-119192-16	MW-18	Total/NA	Water	SM 4500 F C	
400-119192-17	EB-01	Total/NA	Water	SM 4500 F C	
400-119192-18	FB-01	Total/NA	Water	SM 4500 F C	
400-119192-19	DUP-01	Total/NA	Water	SM 4500 F C	
400-119192-20	DUP-02	Total/NA	Water	SM 4500 F C	
400-119192-A-21 DU	Duplicate	Total/NA	Water	SM 4500 F C	
LCS 400-301346/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 400-301346/3	Method Blank	Total/NA	Water	SM 4500 F C	

Rad

Prep Batch: 242272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total/NA	Water	PrecSep-21	
400-119192-2	MW-2	Total/NA	Water	PrecSep-21	
400-119192-3	MW-3	Total/NA	Water	PrecSep-21	
400-119192-4	MW-4	Total/NA	Water	PrecSep-21	
400-119192-5	MW-5	Total/NA	Water	PrecSep-21	
400-119192-6	MW-6	Total/NA	Water	PrecSep-21	
400-119192-7	MW-7	Total/NA	Water	PrecSep-21	
400-119192-8	MW-8	Total/NA	Water	PrecSep-21	
400-119192-9	MW-9	Total/NA	Water	PrecSep-21	
400-119192-10	MW-10	Total/NA	Water	PrecSep-21	
400-119192-11	MW-12	Total/NA	Water	PrecSep-21	
400-119192-12	MW-13	Total/NA	Water	PrecSep-21	
400-119192-13	MW-15	Total/NA	Water	PrecSep-21	
400-119192-14	MW-16	Total/NA	Water	PrecSep-21	
400-119192-15	MW-17	Total/NA	Water	PrecSep-21	
400-119192-16	MW-18	Total/NA	Water	PrecSep-21	
400-119192-17	EB-01	Total/NA	Water	PrecSep-21	
400-119192-18	FB-01	Total/NA	Water	PrecSep-21	
400-119192-19	DUP-01	Total/NA	Water	PrecSep-21	
400-119192-20	DUP-02	Total/NA	Water	PrecSep-21	
LCS 160-242272/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-242272/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	
MB 160-242272/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 243092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total/NA	Water	PrecSep_0	
400-119192-2	MW-2	Total/NA	Water	PrecSep_0	
400-119192-3	MW-3	Total/NA	Water	PrecSep_0	
400-119192-4	MW-4	Total/NA	Water	PrecSep_0	
400-119192-5	MW-5	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Rad (Continued)

Prep Batch: 243092 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-6	MW-6	Total/NA	Water	PrecSep_0	
400-119192-7	MW-7	Total/NA	Water	PrecSep_0	
400-119192-8	MW-8	Total/NA	Water	PrecSep_0	
400-119192-9	MW-9	Total/NA	Water	PrecSep_0	
400-119192-10	MW-10	Total/NA	Water	PrecSep_0	
400-119192-11	MW-12	Total/NA	Water	PrecSep_0	
400-119192-12	MW-13	Total/NA	Water	PrecSep_0	
400-119192-13	MW-15	Total/NA	Water	PrecSep_0	
400-119192-14	MW-16	Total/NA	Water	PrecSep_0	
400-119192-15	MW-17	Total/NA	Water	PrecSep_0	
400-119192-16	MW-18	Total/NA	Water	PrecSep_0	
400-119192-17	EB-01	Total/NA	Water	PrecSep_0	
400-119192-18	FB-01	Total/NA	Water	PrecSep_0	
400-119192-19	DUP-01	Total/NA	Water	PrecSep_0	
400-119192-20	DUP-02	Total/NA	Water	PrecSep_0	
LCS 160-243092/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-243092/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	
MB 160-243092/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 302937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-119192-1	MW-1	Total/NA	Water	Field Sampling	
400-119192-2	MW-2	Total/NA	Water	Field Sampling	
400-119192-3	MW-3	Total/NA	Water	Field Sampling	
400-119192-4	MW-4	Total/NA	Water	Field Sampling	
400-119192-5	MW-5	Total/NA	Water	Field Sampling	
400-119192-6	MW-6	Total/NA	Water	Field Sampling	
400-119192-7	MW-7	Total/NA	Water	Field Sampling	
400-119192-8	MW-8	Total/NA	Water	Field Sampling	
400-119192-9	MW-9	Total/NA	Water	Field Sampling	
400-119192-10	MW-10	Total/NA	Water	Field Sampling	
400-119192-11	MW-12	Total/NA	Water	Field Sampling	
400-119192-12	MW-13	Total/NA	Water	Field Sampling	
400-119192-13	MW-15	Total/NA	Water	Field Sampling	
400-119192-14	MW-16	Total/NA	Water	Field Sampling	
400-119192-15	MW-17	Total/NA	Water	Field Sampling	
400-119192-16	MW-18	Total/NA	Water	Field Sampling	
400-119192-19	DUP-01	Total/NA	Water	Field Sampling	
400-119192-20	DUP-02	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MRL 400-300530/21
Matrix: Water
Analysis Batch: 300530

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.418	J	ug/L		84	50 - 150
Arsenic	0.250	<0.33		ug/L		95	50 - 150
Barium	0.500	0.488	J	ug/L		98	50 - 150
Beryllium	0.250	0.218	J	ug/L		87	50 - 150
Boron	5.00	<18		ug/L		81	50 - 150
Cadmium	0.250	0.253	J	ug/L		101	50 - 150
Calcium	50.0	<130		ug/L		108	50 - 150
Chromium	0.500	0.506	J	ug/L		101	50 - 150
Cobalt	0.500	0.465	J	ug/L		93	50 - 150
Lead	0.250	0.379	J ^	ug/L		152	50 - 150
Lithium	0.500	<1.6		ug/L		133	50 - 150
Molybdenum	0.500	0.453	J	ug/L		91	50 - 150
Selenium	0.250	<0.23		ug/L		87	50 - 150
Thallium	0.100	0.0940	J	ug/L		94	50 - 150

Lab Sample ID: MRL 400-300704/21
Matrix: Water
Analysis Batch: 300704

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.409	J	ug/L		82	50 - 150
Arsenic	0.250	<0.33		ug/L		106	50 - 150
Barium	0.500	0.460	J	ug/L		92	50 - 150
Beryllium	0.250	0.254	J	ug/L		102	50 - 150
Boron	5.00	<18		ug/L		87	50 - 150
Cadmium	0.250	0.267	J	ug/L		107	50 - 150
Calcium	50.0	<130		ug/L		107	50 - 150
Chromium	0.500	0.475	J	ug/L		95	50 - 150
Cobalt	0.500	0.512	J	ug/L		102	50 - 150
Lead	0.250	<0.33		ug/L		97	50 - 150
Lithium	0.500	<1.6		ug/L		142	50 - 150
Molybdenum	0.500	0.496	J	ug/L		99	50 - 150
Selenium	0.250	<0.23		ug/L		88	50 - 150
Thallium	0.100	0.101	J	ug/L		101	50 - 150

Lab Sample ID: MB 400-298973/1-A ^5
Matrix: Water
Analysis Batch: 300530

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 298973

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/25/16 12:00	04/05/16 20:17	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/25/16 12:00	04/05/16 20:17	5
Barium	<0.00049		0.0025	0.00049	mg/L		03/25/16 12:00	04/05/16 20:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 20:17	5
Boron	<0.021		0.050	0.021	mg/L		03/25/16 12:00	04/05/16 20:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/25/16 12:00	04/05/16 20:17	5
Calcium	<0.13		0.25	0.13	mg/L		03/25/16 12:00	04/05/16 20:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/25/16 12:00	04/05/16 20:17	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 400-298973/1-A ^5
Matrix: Water
Analysis Batch: 300530

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 298973

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cobalt	<0.00040		0.0025	0.00040	mg/L		03/25/16 12:00	04/05/16 20:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/25/16 12:00	04/05/16 20:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/25/16 12:00	04/05/16 20:17	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/25/16 12:00	04/05/16 20:17	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/25/16 12:00	04/05/16 20:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/25/16 12:00	04/05/16 20:17	5

Lab Sample ID: LCS 400-298973/2-A ^1
Matrix: Water
Analysis Batch: 300530

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 298973

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Antimony	0.0500	0.0519		mg/L		104	80 - 120	
Arsenic	0.0500	0.0501		mg/L		100	80 - 120	
Barium	0.0500	0.0474		mg/L		95	80 - 120	
Beryllium	0.0500	0.0467		mg/L		93	80 - 120	
Boron	0.100	0.0993		mg/L		99	80 - 120	
Cadmium	0.0500	0.0500		mg/L		100	80 - 120	
Calcium	5.00	5.10		mg/L		102	80 - 120	
Chromium	0.0500	0.0462		mg/L		92	80 - 120	
Cobalt	0.0500	0.0493		mg/L		99	80 - 120	
Lead	0.0500	0.0476		mg/L		95	80 - 120	
Lithium	0.0500	0.0508		mg/L		102	80 - 120	
Molybdenum	0.0500	0.0488		mg/L		98	80 - 120	
Selenium	0.0500	0.0508		mg/L		102	80 - 120	
Thallium	0.0100	0.00984		mg/L		98	80 - 120	

Lab Sample ID: 400-119192-1 MS
Matrix: Water
Analysis Batch: 300530

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 298973

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Antimony	<0.0010		0.0500	0.0487		mg/L		97	75 - 125	
Arsenic	<0.00046		0.0500	0.0503		mg/L		101	75 - 125	
Barium	0.22		0.0500	0.261	4	mg/L		92	75 - 125	
Beryllium	0.00046	J	0.0500	0.0487		mg/L		96	75 - 125	
Boron	<0.021		0.100	0.113		mg/L		113	75 - 125	
Cadmium	<0.00034		0.0500	0.0521		mg/L		104	75 - 125	
Calcium	6.6		5.00	11.5		mg/L		98	75 - 125	
Chromium	<0.0011		0.0500	0.0477		mg/L		95	75 - 125	
Cobalt	0.0044		0.0500	0.0546		mg/L		100	75 - 125	
Lead	<0.00035		0.0500	0.0469		mg/L		94	75 - 125	
Lithium	<0.0032	F1	0.0500	0.0678	F1	mg/L		136	75 - 125	
Molybdenum	<0.00085		0.0500	0.0482		mg/L		96	75 - 125	
Selenium	0.00065	J	0.0500	0.0500		mg/L		99	75 - 125	
Thallium	0.000090	J	0.0100	0.0102		mg/L		101	75 - 125	

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-119192-1 MSD
Matrix: Water
Analysis Batch: 300530

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 298973

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0484		mg/L		97	75 - 125	1	20
Arsenic	<0.00046		0.0500	0.0514		mg/L		103	75 - 125	2	20
Barium	0.22		0.0500	0.261	4	mg/L		91	75 - 125	0	20
Beryllium	0.00046	J	0.0500	0.0489		mg/L		97	75 - 125	1	20
Boron	<0.021		0.100	0.113		mg/L		113	75 - 125	0	20
Cadmium	<0.00034		0.0500	0.0526		mg/L		105	75 - 125	1	20
Calcium	6.6		5.00	11.7		mg/L		101	75 - 125	1	20
Chromium	<0.0011		0.0500	0.0473		mg/L		95	75 - 125	1	20
Cobalt	0.0044		0.0500	0.0538		mg/L		99	75 - 125	1	20
Lead	<0.00035		0.0500	0.0469		mg/L		94	75 - 125	0	20
Lithium	<0.0032	F1	0.0500	0.0691	F1	mg/L		138	75 - 125	2	20
Molybdenum	<0.00085		0.0500	0.0495		mg/L		99	75 - 125	3	20
Selenium	0.00065	J	0.0500	0.0512		mg/L		101	75 - 125	2	20
Thallium	0.000090	J	0.0100	0.0102		mg/L		101	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-300994/14-A
Matrix: Water
Analysis Batch: 301157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000192	J	0.00020	0.000070	mg/L		04/08/16 16:01	04/11/16 10:55	1

Lab Sample ID: LCS 400-300994/15-A
Matrix: Water
Analysis Batch: 301157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00102		mg/L		102	80 - 120

Lab Sample ID: 400-119192-2 MS
Matrix: Water
Analysis Batch: 301157

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 300994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00018	J B	0.00201	0.00185		mg/L		83	80 - 120

Lab Sample ID: 400-119192-2 MSD
Matrix: Water
Analysis Batch: 301157

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 300994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.00018	J B	0.00201	0.00197		mg/L		89	80 - 120	6	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-298721/1
Matrix: Water
Analysis Batch: 298721

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/24/16 11:31	1

Lab Sample ID: LCS 400-298721/2
Matrix: Water
Analysis Batch: 298721

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	254		mg/L		87	78 - 122

Lab Sample ID: 400-119192-2 DU
Matrix: Water
Analysis Batch: 298721

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	28		28.0		mg/L		0	5

Lab Sample ID: MB 400-298732/1
Matrix: Water
Analysis Batch: 298732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/24/16 12:37	1

Lab Sample ID: LCS 400-298732/2
Matrix: Water
Analysis Batch: 298732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	294		mg/L		100	78 - 122

Lab Sample ID: 400-119192-11 DU
Matrix: Water
Analysis Batch: 298732

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	64		64.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-299119/6
Matrix: Water
Analysis Batch: 299119

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			03/26/16 13:28	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 400-299119/7
Matrix: Water
Analysis Batch: 299119

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.7		mg/L		106	90 - 110

Lab Sample ID: 400-119192-2 MS
Matrix: Water
Analysis Batch: 299119

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.6		10.0	18.1		mg/L		105	73 - 120

Lab Sample ID: 400-119192-2 MSD
Matrix: Water
Analysis Batch: 299119

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.6		10.0	18.2		mg/L		106	73 - 120	1	8

Lab Sample ID: 400-119192-8 DU
Matrix: Water
Analysis Batch: 299119

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.7			8.83	F5	mg/L				9	8

Lab Sample ID: MB 400-299259/6
Matrix: Water
Analysis Batch: 299259

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			03/28/16 10:59	1

Lab Sample ID: LCS 400-299259/7
Matrix: Water
Analysis Batch: 299259

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.5		mg/L		105	90 - 110

Lab Sample ID: 400-119192-A-23 MS
Matrix: Water
Analysis Batch: 299259

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<0.60		10.0	10.4		mg/L		104	73 - 120

Lab Sample ID: 400-119192-A-23 MSD
Matrix: Water
Analysis Batch: 299259

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<0.60		10.0	10.3		mg/L		103	73 - 120	1	8

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Lab Sample ID: 400-119192-A-28 DU
Matrix: Water
Analysis Batch: 299259

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	6.5		5.94	F5	mg/L		9	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-301246/3
Matrix: Water
Analysis Batch: 301246

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			04/11/16 17:18	1

Lab Sample ID: LCS 400-301246/4
Matrix: Water
Analysis Batch: 301246

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.02		mg/L		101	90 - 110

Lab Sample ID: 400-119928-A-1 MS
Matrix: Water
Analysis Batch: 301246

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.89		1.00	1.90		mg/L		101	75 - 125

Lab Sample ID: 400-119928-A-1 MSD
Matrix: Water
Analysis Batch: 301246

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.89		1.00	1.90		mg/L		101	75 - 125	0	4

Lab Sample ID: 400-119192-2 DU
Matrix: Water
Analysis Batch: 301246

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	<0.032		<0.032		mg/L		NC	4

Lab Sample ID: MB 400-301346/3
Matrix: Water
Analysis Batch: 301346

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			04/12/16 10:55	1

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-301346/4
Matrix: Water
Analysis Batch: 301346

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.19		mg/L		105	90 - 110

Lab Sample ID: 400-119192-10 MS
Matrix: Water
Analysis Batch: 301346

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	1.01		mg/L		101	75 - 125

Lab Sample ID: 400-119192-10 MSD
Matrix: Water
Analysis Batch: 301346

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	0.990		mg/L		99	75 - 125	2	4

Lab Sample ID: 400-119192-A-21 DU
Matrix: Water
Analysis Batch: 301346

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032			<0.032		mg/L				NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-299114/6
Matrix: Water
Analysis Batch: 299114

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 09:46	1

Lab Sample ID: LCS 400-299114/7
Matrix: Water
Analysis Batch: 299114

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	16.2		mg/L		108	90 - 110

Lab Sample ID: 400-119343-E-2 MS
Matrix: Water
Analysis Batch: 299114

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4	F1	10.0	13.4	F1	mg/L		134	77 - 128

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-119343-E-2 MSD
Matrix: Water
Analysis Batch: 299114

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4	F1	10.0	13.1	F1	mg/L		131	77 - 128	2	5

Lab Sample ID: 400-119266-F-5 DU
Matrix: Water
Analysis Batch: 299114

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	<1.4		<1.4		mg/L		NC	5

Lab Sample ID: MB 400-299120/6
Matrix: Water
Analysis Batch: 299120

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			03/26/16 13:30	1

Lab Sample ID: LCS 400-299120/7
Matrix: Water
Analysis Batch: 299120

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.9		mg/L		99	90 - 110

Lab Sample ID: 400-119192-7 MS
Matrix: Water
Analysis Batch: 299120

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4		10.0	9.97		mg/L		100	77 - 128

Lab Sample ID: 400-119192-7 MSD
Matrix: Water
Analysis Batch: 299120

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4		10.0	9.98		mg/L		100	77 - 128	0	5

Lab Sample ID: 400-119192-14 DU
Matrix: Water
Analysis Batch: 299120

Client Sample ID: MW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	<1.4		<1.4		mg/L		NC	5

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-242272/1-A
Matrix: Water
Analysis Batch: 246401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 242272

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.001940	U	0.0552	0.0552	1.00	0.105	pCi/L	03/25/16 14:46	04/18/16 07:30	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					03/25/16 14:46	04/18/16 07:30	1

Lab Sample ID: LCS 160-242272/2-A
Matrix: Water
Analysis Batch: 246401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 242272

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	13.83		1.35	1.00	0.0956	pCi/L	124	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	103		40 - 110						

Lab Sample ID: LCSD 160-242272/3-A
Matrix: Water
Analysis Batch: 246401

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 242272

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.2	13.12		1.29	1.00	0.0997	pCi/L	118	68 - 137	0.27	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	100		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-243092/1-A
Matrix: Water
Analysis Batch: 245939

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 243092

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.04134	U	0.188	0.188	1.00	0.330	pCi/L	03/31/16 21:51	04/14/16 11:05	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					03/31/16 21:51	04/14/16 11:05	1
Y Carrier	85.6		40 - 110					03/31/16 21:51	04/14/16 11:05	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
 SDG: Mississippi

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-243092/2-A
Matrix: Water
Analysis Batch: 245939

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 243092

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	15.3	17.55		1.82	1.00	0.373	pCi/L	115	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	103		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: LCSD 160-243092/3-A
Matrix: Water
Analysis Batch: 245939


Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 243092

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	15.3	18.55		1.91	1.00	0.352	pCi/L	121	56 - 140	0.27	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	84.5		40 - 110

Chain of Custody Record



Client Information		Lab Pmt: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-53995-23825.1	
Client Contact: Mr. Cale Sellers		Phone: 850-336-0192		E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 4	
Company: Southern Company		Due Date Requested:		Analysis Requested		Job #: 400-119192 COC	
Address: PO BOX 2641 GSC8		TAT Requested (days):		 400-119192 COC		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Ne2SO3 R - Na2SSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph +5 Z - other (specify)	
City: Birmingham		PO #: Purchase Order not required		9316_Ra226_9320_Ra228 5M4600_Cl_E - Chloride, 5M4600_SO4_E - Sulfate, 4500_F_C 6020_7470A		Special Instructions/Note: Total Number of Containers	
State, Zip: AL, 35291		WO #:		Perform MS/MD (Yes or No)		Other: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	
Phone: 205-992-7762(Tel)		Project #: 40006621		Field Filtered Sample (Yes or No)		Special Instructions/Note: Total Number of Containers	
Email: CBSSELLER@SOUTHERNCO.COM		Site: Mississippi		Matrix (W=water, S=solid, O=waste/soil, B=Trace, A=Air)		Special Instructions/Note: Total Number of Containers	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MD (Yes or No)	Analysis Requested
MW-1	3-22-16	1221	G		X	X	X
MW-2	3-22-16	0851	G		X	X	X
MW-3	3-22-16	0855	G		X	X	X
MW-4	3-22-16	1145	G		X	X	X
MW-5	3-22-16	1305	G		X	X	X
MW-6	3-22-16	1025	G		X	X	X
MW-7	3-21-16	1585	G		X	X	X
MW-8	3-21-16	1740	G		X	X	X
MW-9	3-21-16	1845	G		X	X	X
MW-10	3-22-16	1121	G		X	X	X
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:							
Relinquished by: <i>John O. Taylor</i> Date: 3-22-16 2:15							
Relinquished by: <i>John O. Taylor</i> Date: 3-23-16 9:05 AM							
Relinquished by: <i>John O. Taylor</i> Date:							
Custody Seal No.: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Cooler Temperature(s) °C and Other Remarks: <i>0.5°C, 0.6°C, 0.9°C, 0.3°C, 0.3°C</i>							



Chain of Custody Record

Client Information

Client Contact: Mr. Cale Sellers
 Southern Company
 Address: PO BOX 2641 GSC8
 Birmingham
 State, Zip: AL, 35291
 Phone: 205-992-7762(Tel)
 Email: CBSSELLER@SOUTHERNCO.COM
 Project #: 40006621
 CCR -Plant Daniel
 Site: Mississippi

Lab PM: Whitmire, Cheyenne R
 E-Mail: cheyenne.whitmire@testamericainc.com

Carmer Tracking No(s): 400-53995-23826.2
 Page: Page 2 of 4
 Job #:

Sampler: *Share Begg*
 Phone: 850-336-0192

Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required
 WO #:
 Project #: 40006621
 SOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT= tissue, A=air)	Field Filtered Sample (Yes or No)		Preservation Code:		Special Instructions/Note:
					Field Filtered	MS/MSD (Yes or No)	D	N	
MW-12	3-22-16	1546	G	Water	N	X	X	X	
MW-13	3-22-16	1641	G	Water	N	X	X	X	
MW-14 RW 3-22-16									
MW-15	3-22-16	1445	G	Water	N	X	X	X	
MW-16	3-22-16	1740	G	Water	N	X	X	X	
MW-17	3-22-16	1705	G	Water	N	X	X	X	
MW-18	3-22-16	1550	G	Water	N	X	X	X	
				Water					
				Water					
				Water					
				Water					

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: *Share Begg* Date: 3-22-16 Time: 11:15 Company: RDT EM

Relinquished by: *Share Begg* Date: 3-23-16 Time: 9:05AM Company: RDT EM

Relinquished by: _____ Date: _____ Time: _____ Company: _____

Analysis Requested

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other: _____

M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - ph 4-5
 X - EDTA
 Y - EDA
 Z - other (specify)

Special Instructions/Note:

9316 Ra226, 9320, Ra228
 SM4500 Cl-E - Chloride, SM4500 SO4 E - Sulfate, 4500 F-C Fluoride, 2540C - Total Dissolved Solids
 6020, 7470A

Received by: *Share Begg* Date/Time: 3-22-16
 Received by: *Share Begg* Date/Time: 3/23/16 0905
 Received by: _____ Date/Time: _____
 Company: RDT EM
 Company: TA
 Company: _____

Custody Seals Intact: Yes No Δ
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record

Client Information Client Contact: Mr. Cale Sellers Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) Email: CBSSELLER@SOUTHERNCO.COM Project Name: CCR - Plant Daniel Site: Mississippi		Supplier: <i>Shane B. Craig</i> Phone: <i>850-536-0199</i> Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking No(s): COC No: 400-53995-23825.3 Page: Page 3 of 4 Job #:	
Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSO#:		Analysis Requested			
Purchase Order not required		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2SO4 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 L - EDA Other:			
Field Filtered Sample (Yes or No)		Total Number of Containers			
931 E. Ra226, 9320 Ra228		3			
SM4500 Cl ⁻ - Chloride, SM4500 SO ₄ ²⁻ - Sulfate, 4500 F ⁻ - Fluoride, 2840C - Total Dissolved Solids		3			
6020, 7470A		3			
Sample Identification		Special Instructions/Note:			
EB-01	3-22-16 1449 G Water	X	X	X	
FB-01	3-22-16 1502 G Water	X	X	X	
DUP-01	3-21-16 1640 G Water	X	X	X	
EB-02	RDH 3-22-16				
FB-02	RDH 3-22-16				
DUP-02	3-22-16 1345 G Water	X	X	X	
EB-03					
FB-03					
DUP-03	RDH 3-22-16				
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 3-22-16 2115 Company: RDH			
Relinquished by: <i>[Signature]</i>		Date/Time: 3-23-16 9:05 AM Company: RDH			
Relinquished by: <i>[Signature]</i>		Date/Time: 3-23-16 9:05 AM Company: RDH			
Custody Seal No.: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-119192-1

SDG Number: Mississippi

Login Number: 119192

List Number: 1

Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5°C,0.6°C,0.9°C,0.0°C,0.3°C IR-6; 0.0°C, 0.0°C, 3.1°C, IR-2
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-16
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	05-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-16
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	05-31-16
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-16 *
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-16
Nevada	State Program	9	MO000542016-1	07-31-16
New Jersey	NELAP	2	MO002	06-30-16
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-16
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-119192-1
SDG: Mississippi

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16
Texas	NELAP	6	T104704193-15-9	07-31-16
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-121739-1

TestAmerica Sample Delivery Group: Gypsum Stacking

Client Project/Site: CCR -Plant Daniel

For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

6/16/2016 4:59:17 PM

Carolyn Hooper, Project Manager I

(850)474-1001

carolyn.hooper@testamericainc.com

Designee for

Cheyenne Whitmire, Project Manager II

(850)474-1001

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Job ID: 400-121739-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-121739-1

RAD

Method PrecSep_0: Radium-228 Prep Batch 160-252050:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-1 (400-121739-1), MW-2 (400-121739-2), MW-3 (400-121739-3), MW-4 (400-121739-4), MW-5 (400-121739-5), MW-6 (400-121739-6), MW-7 (400-121739-7), MW-8 (400-121739-8), MW-9 (400-121739-9), MW-10 (400-121739-10), DUP-01 (400-121739-11), EQ BLANK-01 (400-121739-12) and FB BLANK-01 (400-121739-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead.

Method PrecSep-21: Radium-226 Prep Batch 160-252037:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-1 (400-121739-1), MW-2 (400-121739-2), MW-3 (400-121739-3), MW-4 (400-121739-4), MW-5 (400-121739-5), MW-6 (400-121739-6), MW-7 (400-121739-7), MW-8 (400-121739-8), MW-9 (400-121739-9), MW-10 (400-121739-10), DUP-01 (400-121739-11), EQ BLANK-01 (400-121739-12) and FB BLANK-01 (400-121739-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead.

General Chemistry

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-306669 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-1

Lab Sample ID: 400-121739-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.21		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00048	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	7.4		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0043		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	90		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	10		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-121739-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.042		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.79		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00073	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	18		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-121739-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.096		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.92		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0015	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00047	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	52		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	10		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-121739-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.058		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0018	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	28		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-121739-5

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-5 (Continued)

Lab Sample ID: 400-121739-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.048		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.6		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00079	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	36		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.8		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-121739-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0025		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	24		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.7	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-121739-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.16		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00040	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	2.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0022	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	44		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-121739-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.093		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00034	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0014	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	38		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.7		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-121739-9

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-9 (Continued)

Lab Sample ID: 400-121739-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.032		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.85		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0010	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00031	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.4		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.7	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-121739-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.044		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00063	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	44		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	5.5		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-121739-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.096		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.89		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0016	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00045	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	36		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: EQ BLANK-01

Lab Sample ID: 400-121739-12

No Detections.

Client Sample ID: FB BLANK-01

Lab Sample ID: 400-121739-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	8.0		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
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

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

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 PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-121739-1	MW-1	Water	05/17/16 09:14	05/17/16 15:44
400-121739-2	MW-2	Water	05/16/16 13:50	05/17/16 15:44
400-121739-3	MW-3	Water	05/16/16 11:51	05/17/16 15:44
400-121739-4	MW-4	Water	05/16/16 15:04	05/17/16 15:44
400-121739-5	MW-5	Water	05/17/16 08:20	05/17/16 15:44
400-121739-6	MW-6	Water	05/16/16 13:54	05/17/16 15:44
400-121739-7	MW-7	Water	05/16/16 10:19	05/17/16 15:44
400-121739-8	MW-8	Water	05/17/16 08:30	05/17/16 15:44
400-121739-9	MW-9	Water	05/16/16 15:45	05/17/16 15:44
400-121739-10	MW-10	Water	05/16/16 11:20	05/17/16 15:44
400-121739-11	DUP-01	Water	05/16/16 10:51	05/17/16 15:44
400-121739-12	EQ BLANK-01	Water	05/16/16 13:00	05/17/16 15:44
400-121739-13	FB BLANK-01	Water	05/16/16 12:30	05/17/16 15:44

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-1
Date Collected: 05/17/16 09:14
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 15:30	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 15:30	5
Barium	0.21		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 15:30	5
Beryllium	0.00048	J	0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 15:30	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 15:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 15:30	5
Calcium	7.4		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 15:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 15:30	5
Cobalt	0.0043		0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 15:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 15:30	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 15:30	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 15:30	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 15:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 15:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	90		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	10		2.0	0.60	mg/L			05/18/16 14:01	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/06/16 11:05	1
Sulfate	4.1	J	5.0	1.4	mg/L			05/19/16 11:06	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.63		0.210	0.256	1.00	0.130	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.54		0.465	0.520	1.00	0.523	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	81.9		40 - 110					05/19/16 13:38	06/06/16 12:55	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	4.16		0.510	0.580	5.00	0.523	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-2
Date Collected: 05/16/16 13:50
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:01	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:01	5
Barium	0.042		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:01	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:01	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:01	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:01	5
Calcium	0.79		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:01	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:01	5
Cobalt	0.00073	J	0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:01	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:01	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:01	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:01	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:01	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:01	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	18		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	7.2		2.0	0.60	mg/L			05/18/16 14:01	1
Fluoride	<0.032		0.10	0.032	mg/L			06/06/16 11:08	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 11:07	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.248		0.0963	0.0989	1.00	0.110	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.233	U	0.255	0.255	1.00	0.417	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	85.6		40 - 110					05/19/16 13:38	06/06/16 12:55	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	0.481		0.272	0.274	5.00	0.417	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-3
Date Collected: 05/16/16 11:51
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:19	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:19	5
Barium	0.096		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:19	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:19	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:19	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:19	5
Calcium	0.92		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:19	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:19	5
Cobalt	0.0015	J	0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:19	5
Lead	0.00047	J	0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:19	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:19	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:19	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:19	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	10		2.0	0.60	mg/L			05/18/16 14:01	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/06/16 11:12	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 11:07	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.860		0.159	0.177	1.00	0.102	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.36		0.352	0.373	1.00	0.413	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	86.4		40 - 110					05/19/16 13:38	06/06/16 12:55	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	2.22		0.386	0.413	5.00	0.413	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-4
Date Collected: 05/16/16 15:04
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:23	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:23	5
Barium	0.058		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:23	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:23	5
Calcium	1.9		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:23	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:23	5
Cobalt	0.0018	J	0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:23	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:23	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:23	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	28		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	6.6		2.0	0.60	mg/L			05/18/16 14:04	1
Fluoride	<0.032		0.10	0.032	mg/L			06/06/16 11:14	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 11:07	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.460		0.133	0.139	1.00	0.132	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.8		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.606		0.352	0.356	1.00	0.528	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.8		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	80.0		40 - 110					05/19/16 13:38	06/06/16 12:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.07		0.376	0.382	5.00	0.528	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-5
Date Collected: 05/17/16 08:20
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:28	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:28	5
Barium	0.048		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:28	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:28	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:28	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:28	5
Calcium	1.6		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:28	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:28	5
Cobalt	0.00079	J	0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:28	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:28	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:28	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:28	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:28	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	7.8		2.0	0.60	mg/L			05/18/16 14:04	1
Fluoride	<0.032		0.10	0.032	mg/L			06/06/16 11:23	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 11:07	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.553		0.136	0.145	1.00	0.116	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.933		0.439	0.447	1.00	0.637	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	65.0		40 - 110					05/19/16 13:38	06/06/16 12:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.49		0.459	0.470	5.00	0.637	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-6
Date Collected: 05/16/16 13:54
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:32	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:32	5
Barium	0.12		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:32	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:32	5
Calcium	1.3		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:32	5
Cobalt	0.0025		0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:32	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	6.6		2.0	0.60	mg/L			05/18/16 14:04	1
Fluoride	<0.032		0.10	0.032	mg/L			06/06/16 11:29	1
Sulfate	2.7	J	5.0	1.4	mg/L			05/19/16 11:08	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.487		0.134	0.141	1.00	0.122	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.7		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.765		0.386	0.392	1.00	0.563	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.7		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	79.3		40 - 110					05/19/16 13:38	06/06/16 12:55	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	1.25		0.409	0.417	5.00	0.563	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-7
Date Collected: 05/16/16 10:19
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:37	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:37	5
Barium	0.16		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:37	5
Beryllium	0.00040	J	0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:37	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:37	5
Calcium	2.0		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:37	5
Cobalt	0.0022	J	0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:37	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	16		2.0	0.60	mg/L			05/18/16 14:04	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/06/16 11:33	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 11:08	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.33		0.200	0.233	1.00	0.101	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.0		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.90		0.445	0.478	1.00	0.506	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.0		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	80.4		40 - 110					05/19/16 13:38	06/06/16 12:55	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	3.23		0.487	0.532	5.00	0.506	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-8
Date Collected: 05/17/16 08:30
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:41	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:41	5
Barium	0.093		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:41	5
Beryllium	0.00034	J	0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:41	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:41	5
Calcium	1.8		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:41	5
Cobalt	0.0014	J	0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:41	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:41	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:41	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	38		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	8.7		2.0	0.60	mg/L			05/18/16 14:04	1
Fluoride	<0.032		0.10	0.032	mg/L			06/06/16 11:36	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 11:08	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.613		0.160	0.169	1.00	0.165	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.7		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.28		0.520	0.561	1.00	0.607	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.7		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	76.6		40 - 110					05/19/16 13:38	06/06/16 12:55	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	2.90		0.544	0.586	5.00	0.607	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-9
Date Collected: 05/16/16 15:45
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:46	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:46	5
Barium	0.032		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:46	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:46	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:46	5
Calcium	0.85		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:46	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:46	5
Cobalt	0.0010	J	0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:46	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:46	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:46	5
Selenium	0.00031	J	0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	6.4		2.0	0.60	mg/L			05/18/16 14:04	1
Fluoride	<0.032		0.10	0.032	mg/L			06/06/16 11:39	1
Sulfate	1.7	J	5.0	1.4	mg/L			05/19/16 11:08	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.282		0.0969	0.100	1.00	0.0993	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.773		0.348	0.355	1.00	0.508	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	83.4		40 - 110					05/19/16 13:38	06/06/16 12:55	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	1.06		0.361	0.369	5.00	0.508	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-10
Date Collected: 05/16/16 11:20
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:50	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:50	5
Barium	0.044		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:50	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:50	5
Calcium	2.9		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:50	5
Cobalt	0.00063	J	0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:50	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:50	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:50	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:50	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	5.5		2.0	0.60	mg/L			05/18/16 14:04	1
Fluoride	<0.032		0.10	0.032	mg/L			06/08/16 16:44	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 13:48	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.451		0.123	0.129	1.00	0.105	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.498	U	0.344	0.347	1.00	0.537	pCi/L	05/19/16 13:38	06/06/16 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					05/19/16 13:38	06/06/16 12:55	1
Y Carrier	83.0		40 - 110					05/19/16 13:38	06/06/16 12:55	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	0.949		0.365	0.371	5.00	0.537	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: DUP-01
Date Collected: 05/16/16 10:51
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 16:54	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 16:54	5
Barium	0.096		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 16:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:54	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 16:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 16:54	5
Calcium	0.89		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 16:54	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 16:54	5
Cobalt	0.0016	J	0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 16:54	5
Lead	0.00045	J	0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 16:54	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 16:54	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 16:54	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 16:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 16:54	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	11		2.0	0.60	mg/L			05/18/16 14:04	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/08/16 16:52	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 13:48	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.974		0.166	0.188	1.00	0.0960	pCi/L	05/19/16 12:16	06/10/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					05/19/16 12:16	06/10/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.22		0.370	0.386	1.00	0.487	pCi/L	05/19/16 13:38	06/06/16 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					05/19/16 13:38	06/06/16 12:56	1
Y Carrier	82.6		40 - 110					05/19/16 13:38	06/06/16 12:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.19		0.405	0.429	5.00	0.487	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: EQ BLANK-01

Lab Sample ID: 400-121739-12

Date Collected: 05/16/16 13:00

Matrix: Water

Date Received: 05/17/16 15:44

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 15:20	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 15:20	5
Barium	<0.00049		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 15:20	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 15:20	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 15:20	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 15:20	5
Calcium	<0.13		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 15:20	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 15:20	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 15:20	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 15:20	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 15:20	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 15:20	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 15:20	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 15:20	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	<0.60		2.0	0.60	mg/L			05/18/16 14:04	1
Fluoride	<0.032		0.10	0.032	mg/L			06/08/16 16:54	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 13:48	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00382	U	0.0539	0.0539	1.00	0.106	pCi/L	05/19/16 12:16	06/10/16 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110					05/19/16 12:16	06/10/16 07:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.451	U	0.311	0.314	1.00	0.483	pCi/L	05/19/16 13:38	06/06/16 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110					05/19/16 13:38	06/06/16 12:56	1
Y Carrier	80.7		40 - 110					05/19/16 13:38	06/06/16 12:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.455	U	0.316	0.318	5.00	0.483	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: FB BLANK-01

Lab Sample ID: 400-121739-13

Date Collected: 05/16/16 12:30

Matrix: Water

Date Received: 05/17/16 15:44

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 15:24	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 15:24	5
Barium	<0.00049		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 15:24	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 15:24	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 15:24	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 15:24	5
Calcium	<0.13		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 15:24	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 15:24	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 15:24	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 15:24	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 15:24	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 15:24	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 15:24	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 15:24	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 10:02	05/20/16 13:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8.0		5.0	3.4	mg/L			05/20/16 12:30	1
Chloride	<0.60		2.0	0.60	mg/L			05/18/16 14:09	1
Fluoride	<0.032		0.10	0.032	mg/L			06/08/16 16:57	1
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 13:48	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0403	U	0.0551	0.0552	1.00	0.0928	pCi/L	05/19/16 12:16	06/10/16 07:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.8		40 - 110					05/19/16 12:16	06/10/16 07:07	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.212	U	0.286	0.287	1.00	0.477	pCi/L	05/19/16 13:38	06/06/16 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.8		40 - 110					05/19/16 13:38	06/06/16 12:56	1
Y Carrier	80.0		40 - 110					05/19/16 13:38	06/06/16 12:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.253	U	0.291	0.292	5.00	0.477	pCi/L		06/16/16 11:47	1

TestAmerica Pensacola

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-1
Date Collected: 05/17/16 09:14
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 15:30	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	306553	05/18/16 14:01	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	308749	06/06/16 11:05	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306669	05/19/16 11:06	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: MW-2
Date Collected: 05/16/16 13:50
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:01	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	306553	05/18/16 14:01	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	308749	06/06/16 11:08	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306669	05/19/16 11:07	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: MW-3
Date Collected: 05/16/16 11:51
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:19	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:22	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-3
Date Collected: 05/16/16 11:51
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	306553	05/18/16 14:01	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	308749	06/06/16 11:12	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306669	05/19/16 11:07	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: MW-4
Date Collected: 05/16/16 15:04
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:23	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:24	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	306553	05/18/16 14:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	308749	06/06/16 11:14	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306669	05/19/16 11:07	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: MW-5
Date Collected: 05/17/16 08:20
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:28	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:25	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	306553	05/18/16 14:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	308749	06/06/16 11:23	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306669	05/19/16 11:07	LSS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-5
Date Collected: 05/17/16 08:20
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: MW-6
Date Collected: 05/16/16 13:54
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:32	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:27	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	306553	05/18/16 14:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	308749	06/06/16 11:29	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306669	05/19/16 11:08	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: MW-7
Date Collected: 05/16/16 10:19
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:37	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:28	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	306553	05/18/16 14:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	308749	06/06/16 11:33	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306669	05/19/16 11:08	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-7
Date Collected: 05/16/16 10:19
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: MW-8
Date Collected: 05/17/16 08:30
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:41	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	306553	05/18/16 14:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	308749	06/06/16 11:36	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306669	05/19/16 11:08	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: MW-9
Date Collected: 05/16/16 15:45
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:46	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:30	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	306553	05/18/16 14:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	308749	06/06/16 11:39	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306669	05/19/16 11:08	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: MW-10
Date Collected: 05/16/16 11:20
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:50	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	306553	05/18/16 14:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	309255	06/08/16 16:44	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306767	05/19/16 13:48	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:55	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: DUP-01
Date Collected: 05/16/16 10:51
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 16:54	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:46	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	306553	05/18/16 14:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	309255	06/08/16 16:52	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306767	05/19/16 13:48	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:06	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: EQ BLANK-01
Date Collected: 05/16/16 13:00
Date Received: 05/17/16 15:44

Lab Sample ID: 400-121739-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 15:20	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:47	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Client Sample ID: EQ BLANK-01

Lab Sample ID: 400-121739-12

Date Collected: 05/16/16 13:00

Matrix: Water

Date Received: 05/17/16 15:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	306553	05/18/16 14:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	309255	06/08/16 16:54	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306767	05/19/16 13:48	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:07	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Client Sample ID: FB BLANK-01

Lab Sample ID: 400-121739-13

Date Collected: 05/16/16 12:30

Matrix: Water

Date Received: 05/17/16 15:44

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			306449	05/18/16 08:50	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	306617	05/18/16 15:24	RJB	TAL PEN
Total/NA	Prep	7470A			306652	05/19/16 10:02	JAP	TAL PEN
Total/NA	Analysis	7470A		1	306852	05/20/16 13:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	306829	05/20/16 12:30	CAC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	306553	05/18/16 14:09	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	309255	06/08/16 16:57	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	306767	05/19/16 13:48	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			252037	05/19/16 12:16	MCJ	TAL SL
Total/NA	Analysis	9315		1	255922	06/10/16 07:07	ALS	TAL SL
Total/NA	Prep	PrecSep_0			252050	05/19/16 13:38	MCJ	TAL SL
Total/NA	Analysis	9320		1	254900	06/06/16 12:56	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	256782	06/16/16 11:47	RTM	TAL SL

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

QC Association Summary

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
 SDG: Gypsum Stacking

Metals

Prep Batch: 306449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-1	MW-1	Total Recoverable	Water	3005A	
400-121739-1 MS	MW-1	Total Recoverable	Water	3005A	
400-121739-1 MSD	MW-1	Total Recoverable	Water	3005A	
400-121739-2	MW-2	Total Recoverable	Water	3005A	
400-121739-3	MW-3	Total Recoverable	Water	3005A	
400-121739-4	MW-4	Total Recoverable	Water	3005A	
400-121739-5	MW-5	Total Recoverable	Water	3005A	
400-121739-6	MW-6	Total Recoverable	Water	3005A	
400-121739-7	MW-7	Total Recoverable	Water	3005A	
400-121739-8	MW-8	Total Recoverable	Water	3005A	
400-121739-9	MW-9	Total Recoverable	Water	3005A	
400-121739-10	MW-10	Total Recoverable	Water	3005A	
400-121739-11	DUP-01	Total Recoverable	Water	3005A	
400-121739-12	EQ BLANK-01	Total Recoverable	Water	3005A	
400-121739-13	FB BLANK-01	Total Recoverable	Water	3005A	
LCS 400-306449/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
MB 400-306449/1-A ^5	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 306617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-1	MW-1	Total Recoverable	Water	6020	306449
400-121739-1 MS	MW-1	Total Recoverable	Water	6020	306449
400-121739-1 MSD	MW-1	Total Recoverable	Water	6020	306449
400-121739-2	MW-2	Total Recoverable	Water	6020	306449
400-121739-3	MW-3	Total Recoverable	Water	6020	306449
400-121739-4	MW-4	Total Recoverable	Water	6020	306449
400-121739-5	MW-5	Total Recoverable	Water	6020	306449
400-121739-6	MW-6	Total Recoverable	Water	6020	306449
400-121739-7	MW-7	Total Recoverable	Water	6020	306449
400-121739-8	MW-8	Total Recoverable	Water	6020	306449
400-121739-9	MW-9	Total Recoverable	Water	6020	306449
400-121739-10	MW-10	Total Recoverable	Water	6020	306449
400-121739-11	DUP-01	Total Recoverable	Water	6020	306449
400-121739-12	EQ BLANK-01	Total Recoverable	Water	6020	306449
400-121739-13	FB BLANK-01	Total Recoverable	Water	6020	306449
LCS 400-306449/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	306449
MB 400-306449/1-A ^5	Method Blank	Total Recoverable	Water	6020	306449

Prep Batch: 306652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-1	MW-1	Total/NA	Water	7470A	
400-121739-2	MW-2	Total/NA	Water	7470A	
400-121739-2 MS	MW-2	Total/NA	Water	7470A	
400-121739-2 MSD	MW-2	Total/NA	Water	7470A	
400-121739-3	MW-3	Total/NA	Water	7470A	
400-121739-4	MW-4	Total/NA	Water	7470A	
400-121739-5	MW-5	Total/NA	Water	7470A	
400-121739-6	MW-6	Total/NA	Water	7470A	
400-121739-7	MW-7	Total/NA	Water	7470A	
400-121739-8	MW-8	Total/NA	Water	7470A	
400-121739-9	MW-9	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Metals (Continued)

Prep Batch: 306652 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-10	MW-10	Total/NA	Water	7470A	
400-121739-11	DUP-01	Total/NA	Water	7470A	
400-121739-12	EQ BLANK-01	Total/NA	Water	7470A	
400-121739-13	FB BLANK-01	Total/NA	Water	7470A	
LCS 400-306652/15-A	Lab Control Sample	Total/NA	Water	7470A	
MB 400-306652/14-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 306852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-1	MW-1	Total/NA	Water	7470A	306652
400-121739-2	MW-2	Total/NA	Water	7470A	306652
400-121739-2 MS	MW-2	Total/NA	Water	7470A	306652
400-121739-2 MSD	MW-2	Total/NA	Water	7470A	306652
400-121739-3	MW-3	Total/NA	Water	7470A	306652
400-121739-4	MW-4	Total/NA	Water	7470A	306652
400-121739-5	MW-5	Total/NA	Water	7470A	306652
400-121739-6	MW-6	Total/NA	Water	7470A	306652
400-121739-7	MW-7	Total/NA	Water	7470A	306652
400-121739-8	MW-8	Total/NA	Water	7470A	306652
400-121739-9	MW-9	Total/NA	Water	7470A	306652
400-121739-10	MW-10	Total/NA	Water	7470A	306652
400-121739-11	DUP-01	Total/NA	Water	7470A	306652
400-121739-12	EQ BLANK-01	Total/NA	Water	7470A	306652
400-121739-13	FB BLANK-01	Total/NA	Water	7470A	306652
LCS 400-306652/15-A	Lab Control Sample	Total/NA	Water	7470A	306652
MB 400-306652/14-A	Method Blank	Total/NA	Water	7470A	306652

General Chemistry

Analysis Batch: 306553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-1	MW-1	Total/NA	Water	SM 4500 CI- E	
400-121739-2	MW-2	Total/NA	Water	SM 4500 CI- E	
400-121739-3	MW-3	Total/NA	Water	SM 4500 CI- E	
400-121739-3 DU	MW-3	Total/NA	Water	SM 4500 CI- E	
400-121739-4	MW-4	Total/NA	Water	SM 4500 CI- E	
400-121739-4 MS	MW-4	Total/NA	Water	SM 4500 CI- E	
400-121739-4 MSD	MW-4	Total/NA	Water	SM 4500 CI- E	
400-121739-5	MW-5	Total/NA	Water	SM 4500 CI- E	
400-121739-6	MW-6	Total/NA	Water	SM 4500 CI- E	
400-121739-7	MW-7	Total/NA	Water	SM 4500 CI- E	
400-121739-8	MW-8	Total/NA	Water	SM 4500 CI- E	
400-121739-9	MW-9	Total/NA	Water	SM 4500 CI- E	
400-121739-10	MW-10	Total/NA	Water	SM 4500 CI- E	
400-121739-11	DUP-01	Total/NA	Water	SM 4500 CI- E	
400-121739-12	EQ BLANK-01	Total/NA	Water	SM 4500 CI- E	
400-121739-13	FB BLANK-01	Total/NA	Water	SM 4500 CI- E	
LCS 400-306553/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MB 400-306553/6	Method Blank	Total/NA	Water	SM 4500 CI- E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

General Chemistry (Continued)

Analysis Batch: 306669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121651-E-4 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-121711-B-3 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-121711-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-121739-1	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-121739-2	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-121739-3	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-121739-4	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-121739-5	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-121739-6	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-121739-7	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-121739-8	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-121739-9	MW-9	Total/NA	Water	SM 4500 SO4 E	
LCS 400-306669/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-306669/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 306767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-10	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-121739-10 MS	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-121739-10 MSD	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-121739-11	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-121739-12	EQ BLANK-01	Total/NA	Water	SM 4500 SO4 E	
400-121739-13	FB BLANK-01	Total/NA	Water	SM 4500 SO4 E	
400-121775-E-6 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	
LCS 400-306767/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-306767/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 306829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-1	MW-1	Total/NA	Water	SM 2540C	
400-121739-2	MW-2	Total/NA	Water	SM 2540C	
400-121739-3	MW-3	Total/NA	Water	SM 2540C	
400-121739-4	MW-4	Total/NA	Water	SM 2540C	
400-121739-5	MW-5	Total/NA	Water	SM 2540C	
400-121739-6	MW-6	Total/NA	Water	SM 2540C	
400-121739-7	MW-7	Total/NA	Water	SM 2540C	
400-121739-8	MW-8	Total/NA	Water	SM 2540C	
400-121739-8 DU	MW-8	Total/NA	Water	SM 2540C	
400-121739-9	MW-9	Total/NA	Water	SM 2540C	
400-121739-10	MW-10	Total/NA	Water	SM 2540C	
400-121739-11	DUP-01	Total/NA	Water	SM 2540C	
400-121739-12	EQ BLANK-01	Total/NA	Water	SM 2540C	
400-121739-13	FB BLANK-01	Total/NA	Water	SM 2540C	
LCS 400-306829/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 400-306829/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 308749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-1	MW-1	Total/NA	Water	SM 4500 F C	
400-121739-2	MW-2	Total/NA	Water	SM 4500 F C	
400-121739-3	MW-3	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

General Chemistry (Continued)

Analysis Batch: 308749 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-4	MW-4	Total/NA	Water	SM 4500 F C	
400-121739-5	MW-5	Total/NA	Water	SM 4500 F C	
400-121739-5 DU	MW-5	Total/NA	Water	SM 4500 F C	
400-121739-6	MW-6	Total/NA	Water	SM 4500 F C	
400-121739-7	MW-7	Total/NA	Water	SM 4500 F C	
400-121739-8	MW-8	Total/NA	Water	SM 4500 F C	
400-121739-9	MW-9	Total/NA	Water	SM 4500 F C	
400-122569-A-7 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-122569-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
LCS 400-308749/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 400-308749/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 309255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-10	MW-10	Total/NA	Water	SM 4500 F C	
400-121739-10 MS	MW-10	Total/NA	Water	SM 4500 F C	
400-121739-10 MSD	MW-10	Total/NA	Water	SM 4500 F C	
400-121739-11	DUP-01	Total/NA	Water	SM 4500 F C	
400-121739-12	EQ BLANK-01	Total/NA	Water	SM 4500 F C	
400-121739-13	FB BLANK-01	Total/NA	Water	SM 4500 F C	
400-121775-E-5 DU	Duplicate	Total/NA	Water	SM 4500 F C	
LCS 400-309255/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 400-309255/3	Method Blank	Total/NA	Water	SM 4500 F C	

Rad

Prep Batch: 252037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-1	MW-1	Total/NA	Water	PrecSep-21	
400-121739-2	MW-2	Total/NA	Water	PrecSep-21	
400-121739-3	MW-3	Total/NA	Water	PrecSep-21	
400-121739-4	MW-4	Total/NA	Water	PrecSep-21	
400-121739-5	MW-5	Total/NA	Water	PrecSep-21	
400-121739-6	MW-6	Total/NA	Water	PrecSep-21	
400-121739-7	MW-7	Total/NA	Water	PrecSep-21	
400-121739-8	MW-8	Total/NA	Water	PrecSep-21	
400-121739-9	MW-9	Total/NA	Water	PrecSep-21	
400-121739-10	MW-10	Total/NA	Water	PrecSep-21	
400-121739-11	DUP-01	Total/NA	Water	PrecSep-21	
400-121739-12	EQ BLANK-01	Total/NA	Water	PrecSep-21	
400-121739-13	FB BLANK-01	Total/NA	Water	PrecSep-21	
LCS 160-252037/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCS 160-252037/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	
MB 160-252037/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 252050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-1	MW-1	Total/NA	Water	PrecSep_0	
400-121739-2	MW-2	Total/NA	Water	PrecSep_0	
400-121739-3	MW-3	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Rad (Continued)

Prep Batch: 252050 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-121739-4	MW-4	Total/NA	Water	PrecSep_0	
400-121739-5	MW-5	Total/NA	Water	PrecSep_0	
400-121739-6	MW-6	Total/NA	Water	PrecSep_0	
400-121739-7	MW-7	Total/NA	Water	PrecSep_0	
400-121739-8	MW-8	Total/NA	Water	PrecSep_0	
400-121739-9	MW-9	Total/NA	Water	PrecSep_0	
400-121739-10	MW-10	Total/NA	Water	PrecSep_0	
400-121739-11	DUP-01	Total/NA	Water	PrecSep_0	
400-121739-12	EQ BLANK-01	Total/NA	Water	PrecSep_0	
400-121739-13	FB BLANK-01	Total/NA	Water	PrecSep_0	
LCS 160-252050/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-252050/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	
MB 160-252050/1-A	Method Blank	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-306449/1-A ^5
Matrix: Water
Analysis Batch: 306617

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 306449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/18/16 08:50	05/18/16 15:11	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/18/16 08:50	05/18/16 15:11	5
Barium	<0.00049		0.0025	0.00049	mg/L		05/18/16 08:50	05/18/16 15:11	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 15:11	5
Boron	<0.021		0.050	0.021	mg/L		05/18/16 08:50	05/18/16 15:11	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/18/16 08:50	05/18/16 15:11	5
Calcium	<0.13		0.25	0.13	mg/L		05/18/16 08:50	05/18/16 15:11	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/18/16 08:50	05/18/16 15:11	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		05/18/16 08:50	05/18/16 15:11	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/18/16 08:50	05/18/16 15:11	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/18/16 08:50	05/18/16 15:11	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/18/16 08:50	05/18/16 15:11	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/18/16 08:50	05/18/16 15:11	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/18/16 08:50	05/18/16 15:11	5

Lab Sample ID: LCS 400-306449/2-A ^1
Matrix: Water
Analysis Batch: 306617

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 306449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0522		mg/L		104	80 - 120
Arsenic	0.0500	0.0506		mg/L		101	80 - 120
Barium	0.0500	0.0455		mg/L		91	80 - 120
Beryllium	0.0500	0.0447		mg/L		89	80 - 120
Boron	0.100	0.0956		mg/L		96	80 - 120
Cadmium	0.0500	0.0489		mg/L		98	80 - 120
Calcium	5.00	4.90		mg/L		98	80 - 120
Chromium	0.0500	0.0455		mg/L		91	80 - 120
Cobalt	0.0500	0.0450		mg/L		90	80 - 120
Lead	0.0500	0.0504		mg/L		101	80 - 120
Lithium	0.0500	0.0483		mg/L		97	80 - 120
Molybdenum	0.0500	0.0470		mg/L		94	80 - 120
Selenium	0.0500	0.0487		mg/L		97	80 - 120
Thallium	0.0100	0.00938		mg/L		94	80 - 120

Lab Sample ID: 400-121739-1 MS
Matrix: Water
Analysis Batch: 306617

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 306449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010		0.0500	0.0537		mg/L		107	75 - 125
Arsenic	<0.00046		0.0500	0.0527		mg/L		105	75 - 125
Barium	0.21		0.0500	0.245	4	mg/L		72	75 - 125
Beryllium	0.00048	J	0.0500	0.0464		mg/L		92	75 - 125
Boron	<0.021		0.100	0.121		mg/L		121	75 - 125
Cadmium	<0.00034		0.0500	0.0497		mg/L		99	75 - 125
Calcium	7.4		5.00	12.2		mg/L		96	75 - 125
Chromium	<0.0011		0.0500	0.0469		mg/L		94	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-121739-1 MS
Matrix: Water
Analysis Batch: 306617

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 306449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0043		0.0500	0.0504		mg/L		92	75 - 125
Lead	<0.00035		0.0500	0.0472		mg/L		94	75 - 125
Lithium	<0.0032		0.0500	0.0488		mg/L		98	75 - 125
Molybdenum	<0.00085		0.0500	0.0491		mg/L		98	75 - 125
Selenium	<0.00024		0.0500	0.0514		mg/L		103	75 - 125
Thallium	<0.000085		0.0100	0.00954		mg/L		95	75 - 125

Lab Sample ID: 400-121739-1 MSD
Matrix: Water
Analysis Batch: 306617

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 306449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0010		0.0500	0.0532		mg/L		106	75 - 125	1	20
Arsenic	<0.00046		0.0500	0.0514		mg/L		103	75 - 125	3	20
Barium	0.21		0.0500	0.247	4	mg/L		77	75 - 125	1	20
Beryllium	0.00048	J	0.0500	0.0461		mg/L		91	75 - 125	1	20
Boron	<0.021		0.100	0.118		mg/L		118	75 - 125	2	20
Cadmium	<0.00034		0.0500	0.0503		mg/L		101	75 - 125	1	20
Calcium	7.4		5.00	12.4		mg/L		100	75 - 125	2	20
Chromium	<0.0011		0.0500	0.0464		mg/L		93	75 - 125	1	20
Cobalt	0.0043		0.0500	0.0499		mg/L		91	75 - 125	1	20
Lead	<0.00035		0.0500	0.0470		mg/L		94	75 - 125	0	20
Lithium	<0.0032		0.0500	0.0476		mg/L		95	75 - 125	2	20
Molybdenum	<0.00085		0.0500	0.0490		mg/L		98	75 - 125	0	20
Selenium	<0.00024		0.0500	0.0506		mg/L		101	75 - 125	2	20
Thallium	<0.000085		0.0100	0.00969		mg/L		97	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-306652/14-A
Matrix: Water
Analysis Batch: 306852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 306652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/19/16 09:57	05/20/16 13:01	1

Lab Sample ID: LCS 400-306652/15-A
Matrix: Water
Analysis Batch: 306852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 306652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000904		mg/L		90	80 - 120

Lab Sample ID: 400-121739-2 MS
Matrix: Water
Analysis Batch: 306852

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 306652

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.000070		0.00201	0.00187		mg/L		93	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Lab Sample ID: 400-121739-2 MSD
Matrix: Water
Analysis Batch: 306852

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 306652
%Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00180		mg/L		90	80 - 120	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-306829/1
Matrix: Water
Analysis Batch: 306829

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			05/20/16 12:30	1

Lab Sample ID: LCS 400-306829/2
Matrix: Water
Analysis Batch: 306829

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	293	300		mg/L		102	78 - 122

Lab Sample ID: 400-121739-8 DU
Matrix: Water
Analysis Batch: 306829

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	38		40.0		mg/L		5	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-306553/6
Matrix: Water
Analysis Batch: 306553

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			05/18/16 09:53	1

Lab Sample ID: LCS 400-306553/7
Matrix: Water
Analysis Batch: 306553

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	30.0	31.6		mg/L		105	90 - 110

Lab Sample ID: 400-121739-4 MS
Matrix: Water
Analysis Batch: 306553

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloride	6.6		10.0	17.9		mg/L		113	73 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-121739-4 MSD
Matrix: Water
Analysis Batch: 306553

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.6		10.0	17.8		mg/L		112	73 - 120	1	8

Lab Sample ID: 400-121739-3 DU
Matrix: Water
Analysis Batch: 306553

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	10		10.2		mg/L		0.8	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-308749/3
Matrix: Water
Analysis Batch: 308749

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/06/16 10:44	1

Lab Sample ID: LCS 400-308749/4
Matrix: Water
Analysis Batch: 308749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.19		mg/L		105	90 - 110

Lab Sample ID: 400-122569-A-7 MS
Matrix: Water
Analysis Batch: 308749

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.43		1.00	1.49		mg/L		106	75 - 125

Lab Sample ID: 400-122569-A-7 MSD
Matrix: Water
Analysis Batch: 308749

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.43		1.00	1.49		mg/L		106	75 - 125	0	4

Lab Sample ID: 400-121739-5 DU
Matrix: Water
Analysis Batch: 308749

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	<0.032		<0.032		mg/L		NC	4

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MB 400-309255/3
Matrix: Water
Analysis Batch: 309255

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/08/16 16:37	1

Lab Sample ID: LCS 400-309255/4
Matrix: Water
Analysis Batch: 309255

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.19		mg/L		105	90 - 110

Lab Sample ID: 400-121739-10 MS
Matrix: Water
Analysis Batch: 309255

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	1.05		mg/L		105	75 - 125

Lab Sample ID: 400-121739-10 MSD
Matrix: Water
Analysis Batch: 309255

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	1.03		mg/L		103	75 - 125	2	4

Lab Sample ID: 400-121775-E-5 DU
Matrix: Water
Analysis Batch: 309255

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.19		0.190		mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-306669/6
Matrix: Water
Analysis Batch: 306669

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 09:36	1

Lab Sample ID: LCS 400-306669/7
Matrix: Water
Analysis Batch: 306669

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.1		mg/L		101	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-121711-B-3 MS

Matrix: Water
Analysis Batch: 306669

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4	F1	10.0	<1.4	F1	mg/L		0	77 - 128

Lab Sample ID: 400-121711-B-3 MSD

Matrix: Water
Analysis Batch: 306669

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4	F1	10.0	<1.4	F1	mg/L		0	77 - 128	NC	5

Lab Sample ID: 400-121651-E-4 DU

Matrix: Water
Analysis Batch: 306669

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	730		699		mg/L		4	5

Lab Sample ID: MB 400-306767/6

Matrix: Water
Analysis Batch: 306767

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			05/19/16 12:41	1

Lab Sample ID: LCS 400-306767/7

Matrix: Water
Analysis Batch: 306767

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.4		mg/L		103	90 - 110

Lab Sample ID: 400-121739-10 MS

Matrix: Water
Analysis Batch: 306767

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4		10.0	10.4		mg/L		104	77 - 128

Lab Sample ID: 400-121739-10 MSD

Matrix: Water
Analysis Batch: 306767

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4		10.0	10.4		mg/L		104	77 - 128	0	5

Lab Sample ID: 400-121775-E-6 DU

Matrix: Water
Analysis Batch: 306767

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	<1.4		<1.4		mg/L		NC	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-252037/1-A
Matrix: Water
Analysis Batch: 255922

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252037

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04336	U	0.0737	0.0738	1.00	0.127	pCi/L	05/19/16 12:16	06/10/16 07:05	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.5		40 - 110					05/19/16 12:16	06/10/16 07:05	1

Lab Sample ID: LCS 160-252037/2-A
Matrix: Water
Analysis Batch: 255922

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252037

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	13.55		1.35	1.00	0.123	pCi/L	121	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	75.2		40 - 110						

Lab Sample ID: LCSD 160-252037/3-A
Matrix: Water
Analysis Batch: 255922

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 252037

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.2	14.09		1.40	1.00	0.123	pCi/L	126	68 - 137	0.20	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	74.9		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-252050/1-A
Matrix: Water
Analysis Batch: 254900

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 252050

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.008118	U	0.281	0.281	1.00	0.502	pCi/L	05/19/16 13:38	06/06/16 12:54	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.5		40 - 110					05/19/16 13:38	06/06/16 12:54	1
Y Carrier	84.1		40 - 110					05/19/16 13:38	06/06/16 12:54	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
 SDG: Gypsum Stacking

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-252050/2-A
Matrix: Water
Analysis Batch: 254900

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 252050

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	15.1	17.73		1.91	1.00	0.447	pCi/L	118	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	75.2		40 - 110
Y Carrier	84.5		40 - 110

Lab Sample ID: LCSD 160-252050/3-A
Matrix: Water
Analysis Batch: 254900

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 252050

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	15.1	19.15		2.05	1.00	0.443	pCi/L	127	56 - 140	0.36	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	74.9		40 - 110
Y Carrier	81.9		40 - 110

Chain of Custody Record

Client Information
 Client Contact: **Brett Surles**
 Mr. Cale Sellers
 Southern Company
 Address: PO BOX 2641 GSC8
 Birmingham
 State, Zip: AL, 35291
 Phone: 205-992-7762 (Tel)
 Email: CBSSELLER@SOUTHERNCO.COM
 Project Name: **G-TPSUM Stocking**
 CCR - Plant: Daniel
 Site: Mississippi

Lab Pkt: **Whitnire, Cheyenne R**
 E-Mail: **cheyenne.whitnire@testamerica.com**

Carrier Tracking No(s):
 COC No: 400-56446-23825.4
 Page: **1-2**
 Job #:

Due Date Requested:
 TAT Requested (days):
 PO #:
 Purchase Order not required
 WO #:
 Project #:
 40006621
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (G-comp, G-grab)	Matrix (W-water, S-solid, O-unknown)	Preservation Code	Analysis Requested	Special Instructions/Note
MW-1	5/17/16	0914	G	Water		5M4500, CI, F, SM4500, S04, F	
MW-2	5/16/16	1350	G	Water		6020, 7470A	
MW-3	5/16/16	1151	G	Water		2540C - Total Dissolved Solids	
MW-4	5/16/16	1504	G	W		4500, F, C - Fluoride	
MW-5	5/17/16	0820	G	W			
MW-6	5/16/16	1354	G	W			
MW-7	5/16/16	1019	G	W			
MW-8	5/17/16	0850	G	W			
MW-9	5/16/16	1545	G	W			
MW-10	5/16/16	1120	G	W			
DUP-01	5/16/16	1051	G	W			

Preservation Codes:
 M - Hexane
 N - None
 O - As/NaO2
 P - Na2SO4
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecylhydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (Specify)

Analysis Requested:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:

Special Instructions/Note:
 400-121739 COC

Special Instructions/QC Requirements:
 Return To Client
 Disposal By Lab
 Archive For _____ Months
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Deliverable Requested: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Other (specify):

Empty Kit Requisitioned by: _____ Date: _____
 Requisitioned by: **Surles** Date: 5/17/16
 Requisitioned by: _____ Date: 1544
 Requisitioned by: _____ Date: _____
 Custody Seal Intact: _____
 Yes _____ No _____

Chain of Custody Record

TestAmerica Pensacola
3355 McIlmenc Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Client Information:
 Supplier: **Brett Sales**
 Client Contact: **Whitire, Cheyenne R**
 Mr. Cale Sellers
 Phone: **850 380 3458**
 F-Mail: **cheyenne.whitire@testamerica.com**
 Company: **Southern Company**
 Address: **PO BOX 2641 GSC8**
 City: **Birmingham**
 State, Zip: **AL, 35291**
 Phone: **205-992-7762(Tel)**
 Email: **CBSSELLER@SOUTHERNCO.COM**

Due Date Requested:
 TAT Requested (days):
 PO #: **Purchase Order not required**
 W/O #:
 Project #: **40006621**
 Project Name: **GYS/S/Sun Steeking**
 Site: **Mississippi**

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Other, RT=Radio, A=Air)	Analysis Requested	Preservation Codes	Special Instructions/Note
EQ Blank - 01	5/16/16	1300	G	Water	SM4500 Cl in SM4500 S04 F 6020, 7470A 2540C - Total Dissolved Solids 4500, F, C - Fluoride	A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - Nitrous Acid F - MeOH G - Amelch H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
FB Blank - 01	5/16/16	1230	G	Water		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Radiological
 Deliverable Requested: i, ii, iii, IV, Other (specify):

Empty/Relinquished by: [Signature] Date: 5/17/16 Time: 1544
Relinquished by: [Signature] Date: 5/17/16 Time: 1544
Relinquished by: [Signature] Date: 5/17/16 Time: 1544
Relinquished by: [Signature] Date: 5/17/16 Time: 1544

Disposal By Lab: Return To Client Disposal By Lab Archive For Months

Method of Shipment:
 Date/Time: 5/17/16 1544
 Date/Time: 5/17/16 1544
 Date/Time: 5/17/16 1544
 Date/Time: 5/17/16 1544



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-121739-1
SDG Number: Gypsum Stacking

Login Number: 121739

List Number: 1

Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1°C, 3.2°C, 2.5°C IR-5
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	Split samples 1, 2, 3 and 4 so that Zinc could be on another job.
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-121739-1
SDG Number: Gypsum Stacking

Login Number: 121739
List Number: 2
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis
List Creation: 05/18/16 02:17 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	20.0, 20.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
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	



Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-16
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	07-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-17 *
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-16

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-16 *
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-16 *
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	07-31-16 *
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-16 *
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-16
Missouri	State Program	7	780	06-30-16 *
Nevada	State Program	9	MO000542016-1	07-31-16 *
New Jersey	NELAP	2	MO002	06-30-16 *
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-16 *
NRC	NRC		24-24817-01	12-31-22

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-121739-1
SDG: Gypsum Stacking

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	9997	08-31-16 *
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16 *
Texas	NELAP	6	T104704193-15-9	07-31-16 *
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16
Virginia	NELAP	3	460230	06-14-16 *
Washington	State Program	10	C592	08-30-16
West Virginia DEP	State Program	3	381	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-124341-1

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

8/31/2016 8:07:25 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Job ID: 400-124341-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-124341-1

RAD

Method(s) 904.0, 9320: Radium-228 prep batch: 160-260733. The absolute value of the negative result for the following sample is outside the three sigma uncertainty: (MB 160-260733/1-A). A recount was not possible due to the passing of a full decay cycle of actinium-228. The data has been qualified and reported.

Method(s) PrecSep_0: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with Ra228 analytical batch 160-260753.

Method(s) PrecSep_0: Radium-228 Prep Batch 160-260733: The following samples did not dry evenly onto the planchettes: MW-1 (400-124341-1), MW-2 (400-124341-2), MW-3 (400-124341-3), MW-4 (400-124341-4), MW-5 (400-124341-5), MW-6 (400-124341-6), MW-7 (400-124341-7), MW-8 (400-124341-8) and MW-9 (400-124341-9). The count room supervisor/manager was consulted and they were deemed acceptable to turn in.

Method(s) PrecSep-21: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with Ra-226 analytical batch 160-260748. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium-226 prep batch 160-260730: The following samples did not dry evenly onto the planchettes: MW-1 (400-124341-1), MW-2 (400-124341-2), MW-3 (400-124341-3), MW-4 (400-124341-4), MW-5 (400-124341-5), MW-6 (400-124341-6), MW-7 (400-124341-7), MW-8 (400-124341-8) and MW-9 (400-124341-9). The count room supervisor/manager was consulted and they were deemed acceptable to turn in.

Metals

Method(s) 6020: The initial and continuing calibration verifications (ICV,CCV) associated with batch 314611 recovered above the upper control limit for Antimony. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-1 (400-124341-1), MW-2 (400-124341-2), MW-3 (400-124341-3), MW-4 (400-124341-4), MW-5 (400-124341-5), MW-6 (400-124341-6), MW-7 (400-124341-7), MW-8 (400-124341-8), MW-9 (400-124341-9), MW-10 (400-124341-10), DUP-01 (400-124341-11), EB-01 (400-124341-12) and FB-01 (400-124341-13).

General Chemistry

Method(s) SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 317637 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-1

Lab Sample ID: 400-124341-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.18		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00039	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	5.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0038		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00032	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	56		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	9.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	5.2		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.78				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-124341-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.038		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.67		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00076	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	4.0	J	5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.4		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.88				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-124341-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.092		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.78		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0016	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00040	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	16		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	4.59				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-124341-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.048		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.5		0.25	0.13	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-4 (Continued)

Lab Sample ID: 400-124341-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0014	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	24		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.4		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-124341-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.066		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.1		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00099	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	34		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	9.1		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.71				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-124341-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.068		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0030		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	14		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.71				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-124341-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00038	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0023	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	22		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	5.16				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-124341-8

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-8 (Continued)

Lab Sample ID: 400-124341-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.10		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00041	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.7		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0016	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	14		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.51				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-124341-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.037		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.82		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0012	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00040	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	24		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.1		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.87				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-124341-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.029		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.89		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00066	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Chloride	6.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.95				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-124341-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00048	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.7		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0024	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	5.16				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: EB-01

Lab Sample ID: 400-124341-12

No Detections.

Client Sample ID: FB-01

Lab Sample ID: 400-124341-13

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
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
Field Sampling	Field Sampling	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

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 PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-124341-1	MW-1	Water	07/12/16 14:26	07/13/16 08:45
400-124341-2	MW-2	Water	07/11/16 15:08	07/13/16 08:45
400-124341-3	MW-3	Water	07/11/16 11:38	07/13/16 08:45
400-124341-4	MW-4	Water	07/12/16 17:02	07/13/16 08:45
400-124341-5	MW-5	Water	07/12/16 15:38	07/13/16 08:45
400-124341-6	MW-6	Water	07/11/16 13:34	07/13/16 08:45
400-124341-7	MW-7	Water	07/11/16 10:15	07/13/16 08:45
400-124341-8	MW-8	Water	07/11/16 11:16	07/13/16 08:45
400-124341-9	MW-9	Water	07/11/16 12:43	07/13/16 08:45
400-124341-10	MW-10	Water	07/12/16 13:18	07/13/16 08:45
400-124341-11	DUP-01	Water	07/11/16 09:15	07/13/16 08:45
400-124341-12	EB-01	Water	07/11/16 14:05	07/13/16 08:45
400-124341-13	FB-01	Water	07/11/16 14:15	07/13/16 08:45

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 07/12/16 14:26
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:01	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:01	5
Barium	0.18		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:01	5
Beryllium	0.00039	J	0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:01	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:01	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:01	5
Calcium	5.0		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:01	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:01	5
Cobalt	0.0038		0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:01	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:01	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:01	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:01	5
Selenium	0.00032	J	0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:01	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:01	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		5.0	3.4	mg/L			07/16/16 15:46	1
Chloride	9.0		2.0	0.60	mg/L			07/27/16 10:20	1
Fluoride	0.040	J	0.10	0.032	mg/L			08/04/16 15:14	1
Sulfate	5.2		5.0	1.4	mg/L			07/21/16 15:08	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.288		0.0880	0.0917	1.00	0.0760	pCi/L	07/15/16 15:15	08/30/16 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					07/15/16 15:15	08/30/16 13:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.190	U	0.293	0.293	1.00	0.492	pCi/L	07/15/16 15:46	08/22/16 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					07/15/16 15:46	08/22/16 12:19	1
Y Carrier	83.4		40 - 110					07/15/16 15:46	08/22/16 12:19	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	0.478	U	0.306	0.307	5.00	0.492	pCi/L		08/31/16 09:29	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 07/12/16 14:26
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-1
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.78				SU			07/12/16 14:26	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 07/11/16 15:08
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:05	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:05	5
Barium	0.038		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:05	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:05	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:05	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:05	5
Calcium	0.67		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:05	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:05	5
Cobalt	0.00076	J	0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:05	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:05	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:05	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:05	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:05	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:05	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4.0	J	5.0	3.4	mg/L			07/14/16 16:38	1
Chloride	6.4		2.0	0.60	mg/L			07/27/16 10:20	1
Fluoride	<0.032		0.10	0.032	mg/L			08/04/16 15:16	1
Sulfate	1.4	J	5.0	1.4	mg/L			07/28/16 10:22	1

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		0.0918	0.0937	1.00	0.120	pCi/L	07/15/16 15:15	08/30/16 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.9		40 - 110					07/15/16 15:15	08/30/16 13:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.423	U	0.279	0.281	1.00	0.428	pCi/L	07/15/16 15:46	08/22/16 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.9		40 - 110					07/15/16 15:46	08/22/16 12:19	1
Y Carrier	87.5		40 - 110					07/15/16 15:46	08/22/16 12:19	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	0.629		0.293	0.297	5.00	0.428	pCi/L		08/31/16 09:29	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 07/11/16 15:08
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-2
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.88				SU			07/11/16 15:08	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 07/11/16 11:38
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:10	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:10	5
Barium	0.092		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:10	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:10	5
Calcium	0.78		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:10	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:10	5
Cobalt	0.0016	J	0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:10	5
Lead	0.00040	J	0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:10	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:10	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:10	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16		5.0	3.4	mg/L			07/14/16 16:38	1
Chloride	11		2.0	0.60	mg/L			07/27/16 10:23	1
Fluoride	0.040	J	0.10	0.032	mg/L			08/04/16 15:20	1
Sulfate	<1.4		5.0	1.4	mg/L			07/28/16 10:22	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.662		0.136	0.149	1.00	0.121	pCi/L	07/15/16 15:15	08/30/16 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					07/15/16 15:15	08/30/16 13:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.917		0.329	0.339	1.00	0.441	pCi/L	07/15/16 15:46	08/22/16 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					07/15/16 15:46	08/22/16 12:19	1
Y Carrier	83.0		40 - 110					07/15/16 15:46	08/22/16 12:19	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	1.58		0.356	0.371	5.00	0.441	pCi/L		08/31/16 09:29	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 07/11/16 11:38
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-3
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.59				SU			07/11/16 11:38	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 07/12/16 17:02
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:14	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:14	5
Barium	0.048		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:14	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:14	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:14	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:14	5
Calcium	1.5		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:14	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:14	5
Cobalt	0.0014	J	0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:14	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:14	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:14	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:14	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:14	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		5.0	3.4	mg/L			07/16/16 15:46	1
Chloride	6.4		2.0	0.60	mg/L			07/27/16 10:23	1
Fluoride	<0.032		0.10	0.032	mg/L			08/04/16 15:22	1
Sulfate	<1.4		5.0	1.4	mg/L			07/21/16 15:08	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.475		0.121	0.128	1.00	0.119	pCi/L	07/15/16 15:15	08/30/16 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					07/15/16 15:15	08/30/16 13:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.226	U	0.351	0.352	1.00	0.590	pCi/L	07/15/16 15:46	08/22/16 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					07/15/16 15:46	08/22/16 12:20	1
Y Carrier	78.9		40 - 110					07/15/16 15:46	08/22/16 12:20	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	0.701		0.372	0.375	5.00	0.590	pCi/L		08/31/16 09:29	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 07/12/16 17:02
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-4
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.82				SU			07/12/16 17:02	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 07/12/16 15:38
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:32	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:32	5
Barium	0.066		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:32	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:32	5
Calcium	2.1		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:32	5
Cobalt	0.00099	J	0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:32	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 12:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	3.4	mg/L			07/16/16 15:46	1
Chloride	9.1		2.0	0.60	mg/L			07/27/16 10:23	1
Fluoride	<0.032		0.10	0.032	mg/L			08/04/16 15:30	1
Sulfate	<1.4		5.0	1.4	mg/L			07/21/16 15:08	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.549		0.119	0.129	1.00	0.0936	pCi/L	07/15/16 15:15	08/30/16 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					07/15/16 15:15	08/30/16 13:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.10		0.388	0.401	1.00	0.522	pCi/L	07/15/16 15:46	08/22/16 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					07/15/16 15:46	08/22/16 12:20	1
Y Carrier	75.1		40 - 110					07/15/16 15:46	08/22/16 12:20	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	1.65		0.406	0.421	5.00	0.522	pCi/L		08/31/16 09:29	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 07/12/16 15:38
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-5
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.71				SU			07/12/16 15:38	1

- 1
- 2
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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 07/11/16 13:34
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:37	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:37	5
Barium	0.068		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:37	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:37	5
Calcium	1.3		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:37	5
Cobalt	0.0030		0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:37	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14		5.0	3.4	mg/L			07/14/16 16:38	1
Chloride	7.0		2.0	0.60	mg/L			07/27/16 10:23	1
Fluoride	<0.032		0.10	0.032	mg/L			08/04/16 15:36	1
Sulfate	2.5	J	5.0	1.4	mg/L			07/29/16 10:30	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.343		0.110	0.114	1.00	0.124	pCi/L	07/15/16 15:15	08/30/16 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					07/15/16 15:15	08/30/16 13:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.712		0.350	0.356	1.00	0.513	pCi/L	07/15/16 15:46	08/22/16 12:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		40 - 110					07/15/16 15:46	08/22/16 12:20	1
Y Carrier	81.9		40 - 110					07/15/16 15:46	08/22/16 12:20	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	1.06		0.367	0.374	5.00	0.513	pCi/L		08/31/16 09:29	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 07/11/16 13:34
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-6
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.71				SU			07/11/16 13:34	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 07/11/16 10:15
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:41	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:41	5
Barium	0.15		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:41	5
Beryllium	0.00038	J	0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:41	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:41	5
Calcium	1.9		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:41	5
Cobalt	0.0023	J	0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:41	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:41	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:41	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22		5.0	3.4	mg/L			07/14/16 16:38	1
Chloride	16		2.0	0.60	mg/L			07/27/16 10:23	1
Fluoride	0.040	J	0.10	0.032	mg/L			08/04/16 15:40	1
Sulfate	<1.4		5.0	1.4	mg/L			07/29/16 10:30	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.01		0.165	0.188	1.00	0.129	pCi/L	07/15/16 15:15	08/30/16 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					07/15/16 15:15	08/30/16 13:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.367	0.380	1.00	0.492	pCi/L	07/15/16 15:46	08/22/16 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.6		40 - 110					07/15/16 15:46	08/22/16 12:19	1
Y Carrier	81.9		40 - 110					07/15/16 15:46	08/22/16 12:19	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	2.11		0.402	0.424	5.00	0.492	pCi/L		08/31/16 09:29	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 07/11/16 10:15
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-7
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.16				SU			07/11/16 10:15	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 07/11/16 11:16
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:46	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:46	5
Barium	0.10		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:46	5
Beryllium	0.00041	J	0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:46	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:46	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:46	5
Calcium	1.7		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:46	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:46	5
Cobalt	0.0016	J	0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:46	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:46	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:46	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:46	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:46	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14		5.0	3.4	mg/L			07/14/16 16:38	1
Chloride	8.6		2.0	0.60	mg/L			07/27/16 10:23	1
Fluoride	<0.032		0.10	0.032	mg/L			08/04/16 15:43	1
Sulfate	<1.4		5.0	1.4	mg/L			07/29/16 10:30	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.561		0.126	0.136	1.00	0.111	pCi/L	07/15/16 15:15	08/30/16 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		40 - 110					07/15/16 15:15	08/30/16 13:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.02		0.399	0.410	1.00	0.567	pCi/L	07/15/16 15:46	08/22/16 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.7		40 - 110					07/15/16 15:46	08/22/16 12:22	1
Y Carrier	79.6		40 - 110					07/15/16 15:46	08/22/16 12:22	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	1.58		0.419	0.432	5.00	0.567	pCi/L		08/31/16 09:29	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 07/11/16 11:16
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-8
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.51				SU			07/11/16 11:16	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 07/11/16 12:43
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:50	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:50	5
Barium	0.037		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:50	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:50	5
Calcium	0.82		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:50	5
Cobalt	0.0012	J	0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:50	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:50	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:50	5
Selenium	0.00040	J	0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:50	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		5.0	3.4	mg/L			07/14/16 16:38	1
Chloride	7.1		2.0	0.60	mg/L			07/27/16 10:23	1
Fluoride	<0.032		0.10	0.032	mg/L			08/04/16 15:46	1
Sulfate	1.5	J	5.0	1.4	mg/L			07/21/16 15:09	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.252		0.0881	0.0910	1.00	0.0874	pCi/L	07/15/16 15:15	08/30/16 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					07/15/16 15:15	08/30/16 13:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.306	U	0.352	0.353	1.00	0.579	pCi/L	07/15/16 15:46	08/22/16 12:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					07/15/16 15:46	08/22/16 12:22	1
Y Carrier	83.4		40 - 110					07/15/16 15:46	08/22/16 12:22	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	0.558	U	0.363	0.365	5.00	0.579	pCi/L		08/31/16 09:29	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 07/11/16 12:43
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-9
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.87				SU			07/11/16 12:43	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 07/12/16 13:18
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:55	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:55	5
Barium	0.029		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:55	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:55	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:55	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:55	5
Calcium	0.89		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:55	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:55	5
Cobalt	0.00066	J	0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:55	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:55	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:55	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:55	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:55	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/16/16 15:46	1
Chloride	6.2		2.0	0.60	mg/L			07/27/16 10:23	1
Fluoride	<0.032		0.10	0.032	mg/L			08/04/16 15:48	1
Sulfate	<1.4		5.0	1.4	mg/L			07/21/16 15:09	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.219		0.0875	0.0897	1.00	0.105	pCi/L	07/15/16 17:59	08/09/16 07:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					07/15/16 17:59	08/09/16 07:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0293	U	0.213	0.213	1.00	0.377	pCi/L	07/15/16 18:52	08/04/16 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					07/15/16 18:52	08/04/16 12:09	1
Y Carrier	88.2		40 - 110					07/15/16 18:52	08/04/16 12:09	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	0.248	U	0.230	0.231	5.00	0.377	pCi/L		08/10/16 05:51	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 07/12/16 13:18
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-10
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.95				SU			07/12/16 13:18	1

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 07/11/16 09:15
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 19:59	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 19:59	5
Barium	0.15		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 19:59	5
Beryllium	0.00048	J	0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:59	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 19:59	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 19:59	5
Calcium	1.7		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 19:59	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 19:59	5
Cobalt	0.0024	J	0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 19:59	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 19:59	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 19:59	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 19:59	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 19:59	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 19:59	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/14/16 16:38	1
Chloride	16		2.0	0.60	mg/L			07/27/16 10:23	1
Fluoride	0.040	J	0.10	0.032	mg/L			08/04/16 15:52	1
Sulfate	<1.4		5.0	1.4	mg/L			07/29/16 10:36	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.21		0.164	0.197	1.00	0.0970	pCi/L	07/15/16 17:59	08/09/16 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					07/15/16 17:59	08/09/16 08:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.32		0.299	0.323	1.00	0.335	pCi/L	07/15/16 18:52	08/04/16 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					07/15/16 18:52	08/04/16 12:09	1
Y Carrier	86.0		40 - 110					07/15/16 18:52	08/04/16 12:09	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	2.53		0.341	0.378	5.00	0.335	pCi/L		08/10/16 05:51	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 07/11/16 09:15
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-11
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.16				SU			07/11/16 09:15	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 07/11/16 14:05
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 17:49	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 17:49	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 17:49	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 17:49	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 17:49	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 17:49	5
Calcium	<0.13		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 17:49	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 17:49	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 17:49	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 17:49	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 17:49	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 17:49	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 17:49	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 17:49	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/14/16 16:38	1
Chloride	<0.60		2.0	0.60	mg/L			07/27/16 10:28	1
Fluoride	<0.032		0.10	0.032	mg/L			08/04/16 15:54	1
Sulfate	<1.4		5.0	1.4	mg/L			07/21/16 15:09	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0641	U	0.0521	0.0525	1.00	0.0771	pCi/L	07/15/16 17:59	08/09/16 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					07/15/16 17:59	08/09/16 08:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0213	U	0.218	0.218	1.00	0.388	pCi/L	07/15/16 18:52	08/04/16 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					07/15/16 18:52	08/04/16 12:09	1
Y Carrier	84.5		40 - 110					07/15/16 18:52	08/04/16 12:09	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	0.0854	U	0.224	0.224	5.00	0.388	pCi/L		08/10/16 05:51	1

TestAmerica Pensacola

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 07/11/16 14:15
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-13
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 17:53	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 17:53	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 17:53	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 17:53	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 17:53	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 17:53	5
Calcium	<0.13		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 17:53	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 17:53	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 17:53	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 17:53	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 17:53	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 17:53	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 17:53	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 17:53	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 10:14	07/15/16 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/16/16 15:07	1
Chloride	<0.60		2.0	0.60	mg/L			07/28/16 11:29	1
Fluoride	<0.032		0.10	0.032	mg/L			08/07/16 15:15	1
Sulfate	<1.4		5.0	1.4	mg/L			07/21/16 15:09	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0167	U	0.0405	0.0405	1.00	0.0747	pCi/L	07/15/16 17:59	08/09/16 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					07/15/16 17:59	08/09/16 08:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.201	U	0.216	0.217	1.00	0.354	pCi/L	07/15/16 18:52	08/04/16 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					07/15/16 18:52	08/04/16 12:09	1
Y Carrier	85.2		40 - 110					07/15/16 18:52	08/04/16 12:09	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	0.218	U	0.220	0.221	5.00	0.354	pCi/L		08/10/16 05:51	1

TestAmerica Pensacola

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Rad

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

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 07/12/16 14:26
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:01	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 12:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314566	07/16/16 15:46	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	316052	07/27/16 10:20	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:14	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	315326	07/21/16 15:08	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260730	07/15/16 15:15	MCJ	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 13:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260733	07/15/16 15:46	MCJ	TAL SL
Total/NA	Analysis	9320		1	265960	08/22/16 12:19	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267449	08/31/16 09:29	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/12/16 14:26	BWS	TAL PEN

Client Sample ID: MW-2
Date Collected: 07/11/16 15:08
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:05	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 12:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314332	07/14/16 16:38	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	316052	07/27/16 10:20	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:16	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	316239	07/28/16 10:22	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260730	07/15/16 15:15	MCJ	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 13:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260733	07/15/16 15:46	MCJ	TAL SL
Total/NA	Analysis	9320		1	265960	08/22/16 12:19	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267449	08/31/16 09:29	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/11/16 15:08	BWS	TAL PEN

Client Sample ID: MW-3
Date Collected: 07/11/16 11:38
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:10	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 07/11/16 11:38
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 12:50	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314332	07/14/16 16:38	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	316052	07/27/16 10:23	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:20	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	316239	07/28/16 10:22	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260730	07/15/16 15:15	MCJ	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 13:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260733	07/15/16 15:46	MCJ	TAL SL
Total/NA	Analysis	9320		1	265960	08/22/16 12:19	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267449	08/31/16 09:29	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/11/16 11:38	BWS	TAL PEN

Client Sample ID: MW-4
Date Collected: 07/12/16 17:02
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:14	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 12:52	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314566	07/16/16 15:46	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	316052	07/27/16 10:23	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:22	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	315326	07/21/16 15:08	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260730	07/15/16 15:15	MCJ	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 13:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260733	07/15/16 15:46	MCJ	TAL SL
Total/NA	Analysis	9320		1	265960	08/22/16 12:20	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267449	08/31/16 09:29	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/12/16 17:02	BWS	TAL PEN

Client Sample ID: MW-5
Date Collected: 07/12/16 15:38
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:32	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 12:53	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 07/12/16 15:38
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	314566	07/16/16 15:46	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	316052	07/27/16 10:23	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:30	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	315326	07/21/16 15:08	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260730	07/15/16 15:15	MCJ	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 13:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260733	07/15/16 15:46	MCJ	TAL SL
Total/NA	Analysis	9320		1	265960	08/22/16 12:20	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267449	08/31/16 09:29	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/12/16 15:38	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 07/11/16 13:34
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:37	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 12:54	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314332	07/14/16 16:38	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	316052	07/27/16 10:23	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:36	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	316370	07/29/16 10:30	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260730	07/15/16 15:15	MCJ	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 13:55	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260733	07/15/16 15:46	MCJ	TAL SL
Total/NA	Analysis	9320		1	265960	08/22/16 12:20	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267449	08/31/16 09:29	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/11/16 13:34	BWS	TAL PEN

Client Sample ID: MW-7
Date Collected: 07/11/16 10:15
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:41	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 13:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314332	07/14/16 16:38	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	316052	07/27/16 10:23	LSS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 07/11/16 10:15
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:40	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	316370	07/29/16 10:30	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260730	07/15/16 15:15	MCJ	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 13:56	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260733	07/15/16 15:46	MCJ	TAL SL
Total/NA	Analysis	9320		1	265960	08/22/16 12:19	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267449	08/31/16 09:29	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/11/16 10:15	BWS	TAL PEN

Client Sample ID: MW-8
Date Collected: 07/11/16 11:16
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:46	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 13:05	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314332	07/14/16 16:38	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	316052	07/27/16 10:23	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:43	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	316370	07/29/16 10:30	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260730	07/15/16 15:15	MCJ	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 13:56	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260733	07/15/16 15:46	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267449	08/31/16 09:29	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/11/16 11:16	BWS	TAL PEN

Client Sample ID: MW-9
Date Collected: 07/11/16 12:43
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:50	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 13:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314332	07/14/16 16:38	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	316052	07/27/16 10:23	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:46	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	315326	07/21/16 15:09	LSS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 07/11/16 12:43
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			260730	07/15/16 15:15	MCJ	TAL SL
Total/NA	Analysis	9315		1	267264	08/30/16 13:56	RTM	TAL SL
Total/NA	Prep	PrecSep_0			260733	07/15/16 15:46	MCJ	TAL SL
Total/NA	Analysis	9320		1	265959	08/22/16 12:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	267449	08/31/16 09:29	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/11/16 12:43	BWS	TAL PEN

Client Sample ID: MW-10
Date Collected: 07/12/16 13:18
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:55	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 13:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314566	07/16/16 15:46	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	316052	07/27/16 10:23	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:48	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	315326	07/21/16 15:09	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260748	07/15/16 17:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	264048	08/09/16 07:34	ALS	TAL SL
Total/NA	Prep	PrecSep_0			260753	07/15/16 18:52	MCJ	TAL SL
Total/NA	Analysis	9320		1	263544	08/04/16 12:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	264114	08/10/16 05:51	ALS	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/12/16 13:18	BWS	TAL PEN

Client Sample ID: DUP-01
Date Collected: 07/11/16 09:15
Date Received: 07/13/16 08:45

Lab Sample ID: 400-124341-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 19:59	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 13:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314332	07/14/16 16:38	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	316052	07/27/16 10:23	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:52	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	316370	07/29/16 10:36	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260748	07/15/16 17:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	264054	08/09/16 08:00	CMA	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Client Sample ID: DUP-01

Lab Sample ID: 400-124341-11

Date Collected: 07/11/16 09:15

Matrix: Water

Date Received: 07/13/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			260753	07/15/16 18:52	MCJ	TAL SL
Total/NA	Analysis	9320		1	263544	08/04/16 12:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	264114	08/10/16 05:51	ALS	TAL SL
Total/NA	Analysis	Field Sampling		1	317291	07/11/16 09:15	BWS	TAL PEN

Client Sample ID: EB-01

Lab Sample ID: 400-124341-12

Date Collected: 07/11/16 14:05

Matrix: Water

Date Received: 07/13/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 17:49	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 13:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314332	07/14/16 16:38	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	316052	07/27/16 10:28	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317406	08/04/16 15:54	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	315326	07/21/16 15:09	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260748	07/15/16 17:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	264054	08/09/16 08:00	CMA	TAL SL
Total/NA	Prep	PrecSep_0			260753	07/15/16 18:52	MCJ	TAL SL
Total/NA	Analysis	9320		1	263544	08/04/16 12:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	264114	08/10/16 05:51	ALS	TAL SL

Client Sample ID: FB-01

Lab Sample ID: 400-124341-13

Date Collected: 07/11/16 14:15

Matrix: Water

Date Received: 07/13/16 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			314425	07/15/16 09:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314611	07/15/16 17:53	RJB	TAL PEN
Total/NA	Prep	7470A			314255	07/14/16 10:14	JAP	TAL PEN
Total/NA	Analysis	7470A		1	314498	07/15/16 13:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	314565	07/16/16 15:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	316238	07/28/16 11:29	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	317637	08/07/16 15:15	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	315326	07/21/16 15:09	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			260748	07/15/16 17:59	MCJ	TAL SL
Total/NA	Analysis	9315		1	264054	08/09/16 08:00	CMA	TAL SL
Total/NA	Prep	PrecSep_0			260753	07/15/16 18:52	MCJ	TAL SL
Total/NA	Analysis	9320		1	263544	08/04/16 12:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	264114	08/10/16 05:51	ALS	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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

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QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Metals

Prep Batch: 314255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total/NA	Water	7470A	
400-124341-2	MW-2	Total/NA	Water	7470A	
400-124341-3	MW-3	Total/NA	Water	7470A	
400-124341-4	MW-4	Total/NA	Water	7470A	
400-124341-5	MW-5	Total/NA	Water	7470A	
400-124341-6	MW-6	Total/NA	Water	7470A	
400-124341-7	MW-7	Total/NA	Water	7470A	
400-124341-8	MW-8	Total/NA	Water	7470A	
400-124341-9	MW-9	Total/NA	Water	7470A	
400-124341-10	MW-10	Total/NA	Water	7470A	
400-124341-11	DUP-01	Total/NA	Water	7470A	
400-124341-12	EB-01	Total/NA	Water	7470A	
400-124341-13	FB-01	Total/NA	Water	7470A	
MB 400-314255/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-314255/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-124351-D-2-B MS	Matrix Spike	Total/NA	Water	7470A	
400-124351-D-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 314425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total Recoverable	Water	3005A	
400-124341-2	MW-2	Total Recoverable	Water	3005A	
400-124341-3	MW-3	Total Recoverable	Water	3005A	
400-124341-4	MW-4	Total Recoverable	Water	3005A	
400-124341-5	MW-5	Total Recoverable	Water	3005A	
400-124341-6	MW-6	Total Recoverable	Water	3005A	
400-124341-7	MW-7	Total Recoverable	Water	3005A	
400-124341-8	MW-8	Total Recoverable	Water	3005A	
400-124341-9	MW-9	Total Recoverable	Water	3005A	
400-124341-10	MW-10	Total Recoverable	Water	3005A	
400-124341-11	DUP-01	Total Recoverable	Water	3005A	
400-124341-12	EB-01	Total Recoverable	Water	3005A	
400-124341-13	FB-01	Total Recoverable	Water	3005A	
MB 400-314425/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-314425/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-124351-D-2-E MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-124351-D-2-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 314498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total/NA	Water	7470A	314255
400-124341-2	MW-2	Total/NA	Water	7470A	314255
400-124341-3	MW-3	Total/NA	Water	7470A	314255
400-124341-4	MW-4	Total/NA	Water	7470A	314255
400-124341-5	MW-5	Total/NA	Water	7470A	314255
400-124341-6	MW-6	Total/NA	Water	7470A	314255
400-124341-7	MW-7	Total/NA	Water	7470A	314255
400-124341-8	MW-8	Total/NA	Water	7470A	314255
400-124341-9	MW-9	Total/NA	Water	7470A	314255
400-124341-10	MW-10	Total/NA	Water	7470A	314255
400-124341-11	DUP-01	Total/NA	Water	7470A	314255

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Metals (Continued)

Analysis Batch: 314498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-12	EB-01	Total/NA	Water	7470A	314255
400-124341-13	FB-01	Total/NA	Water	7470A	314255
MB 400-314255/14-A	Method Blank	Total/NA	Water	7470A	314255
LCS 400-314255/15-A	Lab Control Sample	Total/NA	Water	7470A	314255
400-124351-D-2-B MS	Matrix Spike	Total/NA	Water	7470A	314255
400-124351-D-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	314255

Analysis Batch: 314611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total Recoverable	Water	6020	314425
400-124341-2	MW-2	Total Recoverable	Water	6020	314425
400-124341-3	MW-3	Total Recoverable	Water	6020	314425
400-124341-4	MW-4	Total Recoverable	Water	6020	314425
400-124341-5	MW-5	Total Recoverable	Water	6020	314425
400-124341-6	MW-6	Total Recoverable	Water	6020	314425
400-124341-7	MW-7	Total Recoverable	Water	6020	314425
400-124341-8	MW-8	Total Recoverable	Water	6020	314425
400-124341-9	MW-9	Total Recoverable	Water	6020	314425
400-124341-10	MW-10	Total Recoverable	Water	6020	314425
400-124341-11	DUP-01	Total Recoverable	Water	6020	314425
400-124341-12	EB-01	Total Recoverable	Water	6020	314425
400-124341-13	FB-01	Total Recoverable	Water	6020	314425
MB 400-314425/1-A ^5	Method Blank	Total Recoverable	Water	6020	314425
LCS 400-314425/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	314425
400-124351-D-2-E MS ^5	Matrix Spike	Total Recoverable	Water	6020	314425
400-124351-D-2-F MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	314425

General Chemistry

Analysis Batch: 314332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-2	MW-2	Total/NA	Water	SM 2540C	
400-124341-3	MW-3	Total/NA	Water	SM 2540C	
400-124341-6	MW-6	Total/NA	Water	SM 2540C	
400-124341-7	MW-7	Total/NA	Water	SM 2540C	
400-124341-8	MW-8	Total/NA	Water	SM 2540C	
400-124341-9	MW-9	Total/NA	Water	SM 2540C	
400-124341-11	DUP-01	Total/NA	Water	SM 2540C	
400-124341-12	EB-01	Total/NA	Water	SM 2540C	
MB 400-314332/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-314332/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-124341-6 DU	MW-6	Total/NA	Water	SM 2540C	

Analysis Batch: 314565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-13	FB-01	Total/NA	Water	SM 2540C	
MB 400-314565/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-314565/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-124344-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 314566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total/NA	Water	SM 2540C	
400-124341-4	MW-4	Total/NA	Water	SM 2540C	
400-124341-5	MW-5	Total/NA	Water	SM 2540C	
400-124341-10	MW-10	Total/NA	Water	SM 2540C	
MB 400-314566/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-314566/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-124341-4 DU	MW-4	Total/NA	Water	SM 2540C	

Analysis Batch: 315326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-124341-4	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-124341-5	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-124341-9	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-124341-10	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-124341-12	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-124341-13	FB-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-315326/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-315326/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-124341-4 MS	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-124341-4 MSD	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-124027-A-10 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 316052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total/NA	Water	SM 4500 Cl- E	
400-124341-2	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-124341-3	MW-3	Total/NA	Water	SM 4500 Cl- E	
400-124341-4	MW-4	Total/NA	Water	SM 4500 Cl- E	
400-124341-5	MW-5	Total/NA	Water	SM 4500 Cl- E	
400-124341-6	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-124341-7	MW-7	Total/NA	Water	SM 4500 Cl- E	
400-124341-8	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-124341-9	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-124341-10	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-124341-11	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-124341-12	EB-01	Total/NA	Water	SM 4500 Cl- E	
MB 400-316052/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-316052/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-316052/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-124901-H-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-124901-H-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-124341-2 DU	MW-2	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 316238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-13	FB-01	Total/NA	Water	SM 4500 Cl- E	
MB 400-316238/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-316238/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-316238/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-124344-A-7 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 316238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124344-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-124344-A-6 DU	Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 316239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-2	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-124341-3	MW-3	Total/NA	Water	SM 4500 SO4 E	
MB 400-316239/5	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-316239/11	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-316239/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-124823-A-6 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-124823-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-124825-A-2 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 316370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-6	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-124341-7	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-124341-8	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-124341-11	DUP-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-316370/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-316370/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-316370/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-124344-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-124344-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-124344-A-6 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 317406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total/NA	Water	SM 4500 F C	
400-124341-2	MW-2	Total/NA	Water	SM 4500 F C	
400-124341-3	MW-3	Total/NA	Water	SM 4500 F C	
400-124341-4	MW-4	Total/NA	Water	SM 4500 F C	
400-124341-5	MW-5	Total/NA	Water	SM 4500 F C	
400-124341-6	MW-6	Total/NA	Water	SM 4500 F C	
400-124341-7	MW-7	Total/NA	Water	SM 4500 F C	
400-124341-8	MW-8	Total/NA	Water	SM 4500 F C	
400-124341-9	MW-9	Total/NA	Water	SM 4500 F C	
400-124341-10	MW-10	Total/NA	Water	SM 4500 F C	
400-124341-11	DUP-01	Total/NA	Water	SM 4500 F C	
400-124341-12	EB-01	Total/NA	Water	SM 4500 F C	
MB 400-317406/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-317406/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-124876-G-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-124876-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-124341-5 DU	MW-5	Total/NA	Water	SM 4500 F C	

Analysis Batch: 317637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-13	FB-01	Total/NA	Water	SM 4500 F C	
MB 400-317637/4	Method Blank	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 317637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-317637/5	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-124344-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-124344-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-124344-A-8 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Rad

Prep Batch: 260730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total/NA	Water	PrecSep-21	
400-124341-2	MW-2	Total/NA	Water	PrecSep-21	
400-124341-3	MW-3	Total/NA	Water	PrecSep-21	
400-124341-4	MW-4	Total/NA	Water	PrecSep-21	
400-124341-5	MW-5	Total/NA	Water	PrecSep-21	
400-124341-6	MW-6	Total/NA	Water	PrecSep-21	
400-124341-7	MW-7	Total/NA	Water	PrecSep-21	
400-124341-8	MW-8	Total/NA	Water	PrecSep-21	
400-124341-9	MW-9	Total/NA	Water	PrecSep-21	
MB 160-260730/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-260730/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-260730/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 260733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total/NA	Water	PrecSep_0	
400-124341-2	MW-2	Total/NA	Water	PrecSep_0	
400-124341-3	MW-3	Total/NA	Water	PrecSep_0	
400-124341-4	MW-4	Total/NA	Water	PrecSep_0	
400-124341-5	MW-5	Total/NA	Water	PrecSep_0	
400-124341-6	MW-6	Total/NA	Water	PrecSep_0	
400-124341-7	MW-7	Total/NA	Water	PrecSep_0	
400-124341-8	MW-8	Total/NA	Water	PrecSep_0	
400-124341-9	MW-9	Total/NA	Water	PrecSep_0	
MB 160-260733/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-260733/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-260733/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Prep Batch: 260748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-10	MW-10	Total/NA	Water	PrecSep-21	
400-124341-11	DUP-01	Total/NA	Water	PrecSep-21	
400-124341-12	EB-01	Total/NA	Water	PrecSep-21	
400-124341-13	FB-01	Total/NA	Water	PrecSep-21	
MB 160-260748/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-260748/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-260748/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 260753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-10	MW-10	Total/NA	Water	PrecSep_0	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Rad (Continued)

Prep Batch: 260753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-11	DUP-01	Total/NA	Water	PrecSep_0	
400-124341-12	EB-01	Total/NA	Water	PrecSep_0	
400-124341-13	FB-01	Total/NA	Water	PrecSep_0	
MB 160-260753/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-260753/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-260753/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 317291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-124341-1	MW-1	Total/NA	Water	Field Sampling	
400-124341-2	MW-2	Total/NA	Water	Field Sampling	
400-124341-3	MW-3	Total/NA	Water	Field Sampling	
400-124341-4	MW-4	Total/NA	Water	Field Sampling	
400-124341-5	MW-5	Total/NA	Water	Field Sampling	
400-124341-6	MW-6	Total/NA	Water	Field Sampling	
400-124341-7	MW-7	Total/NA	Water	Field Sampling	
400-124341-8	MW-8	Total/NA	Water	Field Sampling	
400-124341-9	MW-9	Total/NA	Water	Field Sampling	
400-124341-10	MW-10	Total/NA	Water	Field Sampling	
400-124341-11	DUP-01	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-314425/1-A ^5
Matrix: Water
Analysis Batch: 314611

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 314425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010	^	0.0025	0.0010	mg/L		07/15/16 09:45	07/15/16 17:40	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		07/15/16 09:45	07/15/16 17:40	5
Barium	<0.00049		0.0025	0.00049	mg/L		07/15/16 09:45	07/15/16 17:40	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 17:40	5
Boron	<0.021		0.050	0.021	mg/L		07/15/16 09:45	07/15/16 17:40	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		07/15/16 09:45	07/15/16 17:40	5
Calcium	<0.13		0.25	0.13	mg/L		07/15/16 09:45	07/15/16 17:40	5
Chromium	<0.0011		0.0025	0.0011	mg/L		07/15/16 09:45	07/15/16 17:40	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		07/15/16 09:45	07/15/16 17:40	5
Lead	<0.00035		0.0013	0.00035	mg/L		07/15/16 09:45	07/15/16 17:40	5
Lithium	<0.0032		0.0050	0.0032	mg/L		07/15/16 09:45	07/15/16 17:40	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		07/15/16 09:45	07/15/16 17:40	5
Selenium	<0.00024		0.0013	0.00024	mg/L		07/15/16 09:45	07/15/16 17:40	5
Thallium	<0.000085		0.00050	0.000085	mg/L		07/15/16 09:45	07/15/16 17:40	5

Lab Sample ID: LCS 400-314425/2-A ^1
Matrix: Water
Analysis Batch: 314611

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 314425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0594	^	mg/L		119	80 - 120
Arsenic	0.0500	0.0554		mg/L		111	80 - 120
Barium	0.0500	0.0475		mg/L		95	80 - 120
Beryllium	0.0500	0.0513		mg/L		103	80 - 120
Boron	0.100	0.0951		mg/L		95	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	5.00	4.77		mg/L		95	80 - 120
Chromium	0.0500	0.0517		mg/L		103	80 - 120
Cobalt	0.0500	0.0513		mg/L		103	80 - 120
Lead	0.0500	0.0484		mg/L		97	80 - 120
Lithium	0.0500	0.0530		mg/L		106	80 - 120
Molybdenum	0.0500	0.0509		mg/L		102	80 - 120
Selenium	0.0500	0.0530		mg/L		106	80 - 120
Thallium	0.0100	0.00989		mg/L		99	80 - 120

Lab Sample ID: 400-124351-D-2-E MS ^5
Matrix: Water
Analysis Batch: 314611

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 314425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010	^	0.0500	0.0602	^	mg/L		120	75 - 125
Arsenic	<0.00046		0.0500	0.0555		mg/L		111	75 - 125
Barium	0.032		0.0500	0.0794		mg/L		94	75 - 125
Beryllium	<0.00034		0.0500	0.0517		mg/L		103	75 - 125
Boron	<0.021		0.100	0.103		mg/L		103	75 - 125
Cadmium	<0.00034		0.0500	0.0501		mg/L		100	75 - 125
Calcium	0.50		5.00	5.33		mg/L		97	75 - 125
Chromium	0.0041		0.0500	0.0562		mg/L		104	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-124351-D-2-E MS ^5
Matrix: Water
Analysis Batch: 314611

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 314425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0050		0.0500	0.0563		mg/L		103	75 - 125
Lead	<0.00035		0.0500	0.0434		mg/L		87	75 - 125
Lithium	0.0049	J	0.0500	0.0514		mg/L		93	75 - 125
Molybdenum	<0.00085		0.0500	0.0520		mg/L		104	75 - 125
Selenium	0.00062	J	0.0500	0.0528		mg/L		104	75 - 125
Thallium	<0.00085		0.0100	0.00965		mg/L		96	75 - 125

Lab Sample ID: 400-124351-D-2-F MSD ^5
Matrix: Water
Analysis Batch: 314611

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 314425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	<0.0010	^	0.0500	0.0595	^	mg/L		119	75 - 125	1	20
Arsenic	<0.00046		0.0500	0.0573		mg/L		115	75 - 125	3	20
Barium	0.032		0.0500	0.0796		mg/L		94	75 - 125	0	20
Beryllium	<0.00034		0.0500	0.0513		mg/L		103	75 - 125	1	20
Boron	<0.021		0.100	0.0981		mg/L		98	75 - 125	5	20
Cadmium	<0.00034		0.0500	0.0512		mg/L		102	75 - 125	2	20
Calcium	0.50		5.00	5.56		mg/L		101	75 - 125	4	20
Chromium	0.0041		0.0500	0.0562		mg/L		104	75 - 125	0	20
Cobalt	0.0050		0.0500	0.0568		mg/L		104	75 - 125	1	20
Lead	<0.00035		0.0500	0.0434		mg/L		87	75 - 125	0	20
Lithium	0.0049	J	0.0500	0.0516		mg/L		93	75 - 125	0	20
Molybdenum	<0.00085		0.0500	0.0512		mg/L		102	75 - 125	2	20
Selenium	0.00062	J	0.0500	0.0534		mg/L		106	75 - 125	1	20
Thallium	<0.00085		0.0100	0.00979		mg/L		98	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-314255/14-A
Matrix: Water
Analysis Batch: 314498

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 314255

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		07/14/16 09:53	07/15/16 12:43	1

Lab Sample ID: LCS 400-314255/15-A
Matrix: Water
Analysis Batch: 314498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 314255

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000939		mg/L		93	80 - 120

Lab Sample ID: 400-124351-D-2-B MS
Matrix: Water
Analysis Batch: 314498

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 314255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.000070		0.00201	0.00180		mg/L		89	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Lab Sample ID: 400-124351-D-2-C MSD
Matrix: Water
Analysis Batch: 314498

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 314255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.000070		0.00201	0.00183		mg/L		91	80 - 120	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-314332/1
Matrix: Water
Analysis Batch: 314332

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/14/16 16:38	1

Lab Sample ID: LCS 400-314332/2
Matrix: Water
Analysis Batch: 314332

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	284		mg/L		97	78 - 122

Lab Sample ID: 400-124341-6 DU
Matrix: Water
Analysis Batch: 314332

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	14		14.0		mg/L		0	5

Lab Sample ID: MB 400-314565/1
Matrix: Water
Analysis Batch: 314565

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/16/16 15:07	1

Lab Sample ID: LCS 400-314565/2
Matrix: Water
Analysis Batch: 314565

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	264		mg/L		90	78 - 122

Lab Sample ID: 400-124344-A-2 DU
Matrix: Water
Analysis Batch: 314565

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	<3.4		<3.4		mg/L		NC	5

Lab Sample ID: MB 400-314566/1
Matrix: Water
Analysis Batch: 314566

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			07/16/16 15:46	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Lab Sample ID: LCS 400-314566/2
Matrix: Water
Analysis Batch: 314566

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	268		mg/L		91	78 - 122

Lab Sample ID: 400-124341-4 DU
Matrix: Water
Analysis Batch: 314566

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	24		24.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-316052/6
Matrix: Water
Analysis Batch: 316052

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			07/27/16 08:44	1

Lab Sample ID: LCS 400-316052/7
Matrix: Water
Analysis Batch: 316052

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.7		mg/L		102	90 - 110

Lab Sample ID: MRL 400-316052/3
Matrix: Water
Analysis Batch: 316052

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.66	J	mg/L		83	50 - 150

Lab Sample ID: 400-124901-H-2 MS
Matrix: Water
Analysis Batch: 316052

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16		10.0	26.6		mg/L		107	73 - 120

Lab Sample ID: 400-124901-H-2 MSD
Matrix: Water
Analysis Batch: 316052

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16		10.0	26.7		mg/L		109	73 - 120	1	8

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-124341-2 DU
Matrix: Water
Analysis Batch: 316052

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Chloride	6.4		6.49		mg/L		2	8

Lab Sample ID: MB 400-316238/6
Matrix: Water
Analysis Batch: 316238

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			07/28/16 09:27	1

Lab Sample ID: LCS 400-316238/7
Matrix: Water
Analysis Batch: 316238

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.0		mg/L		103	90 - 110

Lab Sample ID: MRL 400-316238/3
Matrix: Water
Analysis Batch: 316238

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.63	J	mg/L		82	50 - 150

Lab Sample ID: 400-124344-A-7 MS
Matrix: Water
Analysis Batch: 316238

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.7		10.0	17.5		mg/L		118	73 - 120

Lab Sample ID: 400-124344-A-7 MSD
Matrix: Water
Analysis Batch: 316238

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	5.7		10.0	17.5		mg/L		118	73 - 120	0	8

Lab Sample ID: 400-124344-A-6 DU
Matrix: Water
Analysis Batch: 316238

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Chloride	8.1		8.16		mg/L		0.4	8

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-317406/3
Matrix: Water
Analysis Batch: 317406

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			08/04/16 14:53	1

Lab Sample ID: LCS 400-317406/4
Matrix: Water
Analysis Batch: 317406

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.28		mg/L		107	90 - 110

Lab Sample ID: 400-124876-G-1 MS
Matrix: Water
Analysis Batch: 317406

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	6.3		1.00	7.40	4	mg/L		111	75 - 125

Lab Sample ID: 400-124876-G-1 MSD
Matrix: Water
Analysis Batch: 317406

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	6.3		1.00	7.40	4	mg/L		111	75 - 125	0	4

Lab Sample ID: 400-124341-5 DU
Matrix: Water
Analysis Batch: 317406

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	<0.032		<0.032		mg/L		NC	4

Lab Sample ID: MB 400-317637/4
Matrix: Water
Analysis Batch: 317637

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			08/07/16 14:59	1

Lab Sample ID: LCS 400-317637/5
Matrix: Water
Analysis Batch: 317637

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.19		mg/L		105	90 - 110

Lab Sample ID: 400-124344-A-1 MS
Matrix: Water
Analysis Batch: 317637

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.040	J F2	1.00	1.12		mg/L		108	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Lab Sample ID: 400-124344-A-1 MSD
Matrix: Water
Analysis Batch: 317637

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.040	J F2	1.00	1.05	F2	mg/L		101	75 - 125	6	4

Lab Sample ID: 400-124344-A-8 DU
Matrix: Water
Analysis Batch: 317637

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.040	J	0.0400	J	mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-315326/6
Matrix: Water
Analysis Batch: 315326

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			07/21/16 07:21	1

Lab Sample ID: LCS 400-315326/7
Matrix: Water
Analysis Batch: 315326

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.6		mg/L		98	90 - 110

Lab Sample ID: 400-124341-4 MS
Matrix: Water
Analysis Batch: 315326

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4		10.0	10.9		mg/L		109	77 - 128

Lab Sample ID: 400-124341-4 MSD
Matrix: Water
Analysis Batch: 315326

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4		10.0	10.9		mg/L		109	77 - 128	0	5

Lab Sample ID: 400-124027-A-10 DU
Matrix: Water
Analysis Batch: 315326

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	45	J	44.4	J	mg/L		0.8	5

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: MB 400-316239/5
Matrix: Water
Analysis Batch: 316239

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			07/28/16 09:29	1

Lab Sample ID: LCS 400-316239/11
Matrix: Water
Analysis Batch: 316239

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.9		mg/L		99	90 - 110

Lab Sample ID: MRL 400-316239/3
Matrix: Water
Analysis Batch: 316239

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	5.39		mg/L		108	50 - 150

Lab Sample ID: 400-124823-A-6 MS
Matrix: Water
Analysis Batch: 316239

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4		10.0	8.28		mg/L		83	77 - 128

Lab Sample ID: 400-124823-A-6 MSD
Matrix: Water
Analysis Batch: 316239

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4		10.0	8.29		mg/L		83	77 - 128	0	5

Lab Sample ID: 400-124825-A-2 DU
Matrix: Water
Analysis Batch: 316239

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	28		28.1		mg/L		1	5

Lab Sample ID: MB 400-316370/6
Matrix: Water
Analysis Batch: 316370

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			07/29/16 09:47	1

Lab Sample ID: LCS 400-316370/7
Matrix: Water
Analysis Batch: 316370

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.8		mg/L		105	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Lab Sample ID: MRL 400-316370/3
Matrix: Water
Analysis Batch: 316370

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	3.82	J	mg/L		76	50 - 150

Lab Sample ID: 400-124344-A-1 MS
Matrix: Water
Analysis Batch: 316370

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	3.8	J	10.0	12.3		mg/L		85	77 - 128

Lab Sample ID: 400-124344-A-1 MSD
Matrix: Water
Analysis Batch: 316370

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	3.8	J	10.0	12.4		mg/L		85	77 - 128	0	5

Lab Sample ID: 400-124344-A-6 DU
Matrix: Water
Analysis Batch: 316370

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	<1.4		<1.4		mg/L		NC	5

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-260730/1-A
Matrix: Water
Analysis Batch: 267348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260730

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02842	U	0.0697	0.0698	1.00	0.125	pCi/L	07/15/16 15:15	08/30/16 13:44	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					07/15/16 15:15	08/30/16 13:44	1

Lab Sample ID: LCS 160-260730/2-A
Matrix: Water
Analysis Batch: 267264

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260730

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	14.9	18.34		1.77	1.00	0.0843	pCi/L	123	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.7		40 - 110						

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCSD 160-260730/3-A
Matrix: Water
Analysis Batch: 267264

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260730

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	14.9	17.18		1.67	1.00	0.108	pCi/L	115	68 - 137	0.34	1
Carrier	%Yield	LCSD Qualifier	LCSD	Limits							
Ba Carrier	91.7			40 - 110							

Lab Sample ID: MB 160-260748/1-A
Matrix: Water
Analysis Batch: 264048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260748

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1716		0.0823	0.0837	1.00	0.108	pCi/L	07/15/16 17:59	08/09/16 07:33	1
Carrier	%Yield	MB Qualifier	MB	Limits				Prepared	Analyzed	Dil Fac
Ba Carrier	91.7			40 - 110				07/15/16 17:59	08/09/16 07:33	1

Lab Sample ID: LCS 160-260748/2-A
Matrix: Water
Analysis Batch: 264048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260748

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226	11.2	14.22		1.39	1.00	0.113	pCi/L	127	68 - 137		
Carrier	%Yield	LCS Qualifier	LCS	Limits							
Ba Carrier	92.3			40 - 110							

Lab Sample ID: LCSD 160-260748/3-A
Matrix: Water
Analysis Batch: 264048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260748

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.2	13.54		1.33	1.00	0.0964	pCi/L	121	68 - 137	0.25	1
Carrier	%Yield	LCSD Qualifier	LCSD	Limits							
Ba Carrier	91.2			40 - 110							

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-260733/1-A
Matrix: Water
Analysis Batch: 265960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260733

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.6079	U	0.331	0.336	1.00	0.688	pCi/L	07/15/16 15:46	08/22/16 12:21	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					07/15/16 15:46	08/22/16 12:21	1
Y Carrier	79.6		40 - 110					07/15/16 15:46	08/22/16 12:21	1

Lab Sample ID: LCS 160-260733/2-A
Matrix: Water
Analysis Batch: 265960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260733

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	19.6	23.32		2.45	1.00	0.469	pCi/L	119	56 - 140
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.7		40 - 110						
Y Carrier	81.9		40 - 110						

Lab Sample ID: LCSD 160-260733/3-A
Matrix: Water
Analysis Batch: 265960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260733

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	19.6	20.80		2.24	1.00	0.459	pCi/L	106	56 - 140	0.54	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	91.7		40 - 110								
Y Carrier	78.1		40 - 110								

Lab Sample ID: MB 160-260753/1-A
Matrix: Water
Analysis Batch: 263544

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 260753

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.04734	U	0.211	0.211	1.00	0.370	pCi/L	07/15/16 18:52	08/04/16 12:09	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					07/15/16 18:52	08/04/16 12:09	1
Y Carrier	87.5		40 - 110					07/15/16 18:52	08/04/16 12:09	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
 SDG: Gypsum

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-260753/2-A
Matrix: Water
Analysis Batch: 263544

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 260753

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.8	16.37		1.73	1.00	0.321	pCi/L	111	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	92.3		40 - 110
Y Carrier	85.6		40 - 110

Lab Sample ID: LCSD 160-260753/3-A
Matrix: Water
Analysis Batch: 263544

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 260753

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	Limit
Radium-228	14.8	15.95		1.70	1.00	0.350	pCi/L	108	56 - 140	0.12	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	91.2		40 - 110
Y Carrier	85.6		40 - 110

Chain of Custody Record

Client Information
 Client Contact: Mr. Cale Sellers
 Company: Southern Company
 Address: PO BOX 2641 GSC8
 City: Birmingham
 State, Zip: AL, 35291
 Phone: 205-992-7762(Tel)
 Email: CBSSELLER@SOUTHERNCO.COM
 Project Name: CCR -Plant Daniel
 Site: Gypsum

Sampler: Brett Sures
 Lab PM: Whitmire, Cheyenne R
 Phone: 850 380 3458
 E-Mail: cheyenne.whitmire@testamericainc.com

Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required
 WO #:
 Project #: 40006621
 SOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code (W=water, S=solid, O=water/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Field Sampling Parameters		Analysis Requested	Total Number of Containers	Special Instructions
					D	N	D	N	Mercury	Field Sampling Parameters			
MW-1	7/12/16	1426	G	Water								3	
MW-2	7/11/16	1508		Water									
MW-3	7/11/16	1138		Water									
MW-4	7/12/16	1702		Water									
MW-5	7/12/16	1538		Water									
MW-6	7/11/16	1334		Water									
MW-7	7/11/16	1015		Water									
MW-8	7/11/16	1116		Water									
MW-9	7/11/16	1243		Water									
MW-10	7/12/16	1318		Water									
DOD-01	7/11/16	0915	G	Water									

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: [Signature]
 Date: 7-13-16 0845
 Company: ADA CM

Relinquished by: [Signature]
 Date: 7-13-16 0845
 Company: ADA CM

Relinquished by: [Signature]
 Date: 7/11/16
 Company: [Signature]

Custody Seals Intact: Δ Yes Δ No
 Custody Seal No.: 1.6°C, 3.9°C, 2.1°C, 4.1°C, 1.9°C, 2.3°C, 1.6°C

Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months
 Sample Disposal: A fee may be assessed if samples are retained longer than 1 month

Chain of Custody Record

Client Information
 Client Contact: Mr. Cale Sellers
 Phone: 850 350 3458
 E-Mail: cheyenne.whitmire@testamericainc.com
 Lab PVT: Whitmire, Cheyenne R
 Carrier Tracking No(s): 400-55446-23825.1
 Job #: [Blank]

Company: Southern Company
 Address: PO BOX 2641 GSC8
 City: Birmingham
 State, Zip: AL, 35291
 Phone: 205-992-7762(Tel)
 Email: CBSSELLER@SOUTHERNCO.COM
 Project #: 40006621
 CCR - Plant: Daniel
 Site: Gypsum

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Sampling Parameters	Analysis Requested	Special Instructions
EW-01	7-11-16	1405	G	Water	SM4500 Cl ⁻ Chloride, SM4500 SO ₄ ²⁻ Sulfate, 2540C - 516 Ra228, 9320 Ra228, Ra228Ra228, GPPC	Mercury	
EW-01	7-11-16	1415	G	Water	SM4500 Cl ⁻ Chloride, SM4500 SO ₄ ²⁻ Sulfate, 2540C - 516 Ra228, 9320 Ra228, Ra228Ra228, GPPC	Mercury	
MW-3				Water			
MW-4				Water			
MW-5				Water			
MW-6				Water			
MW-7				Water			
MW-8				Water			
MW-9				Water			
MW-10				Water			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: [Signature] Date: 7-13-16 0845
 Relinquished by: [Signature] Date: 7-13-16 0845
 Relinquished by: [Signature] Date: 7-13-16 0845

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Special Instructions/QC Requirements:

Received by: [Signature] Date/Time: 7-13-16 0845
 Received by: [Signature] Date/Time: 7-13-16 0845
 Received by: [Signature] Date/Time: 7-13-16 0845

Company: [Blank]
 Company: [Blank]
 Company: [Blank]

Custody Seal No.: [Blank]
 Custody Seals Intact: Yes No

Chapter Temperature: 11.6°C and 14.1°C
 Remarks: 11/6/16 8:45 AM 7/13/16

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-124341-1

SDG Number: Gypsum

Login Number: 124341

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6°C, 3.4°C, 2.1°C, 4.1°C, 1.4°C, 2.3°C, IR-6
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	N/A	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-16
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-16
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	08-31-16

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16
Iowa	State Program	7	373	12-01-16
Kansas	NELAP	7	E-10236	10-31-16
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-124341-1
SDG: Gypsum

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-16 *
Texas	NELAP	6	T104704193-15-9	07-31-17
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-16 *

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-127142-1

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

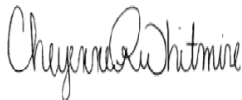
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

10/17/2016 6:35:37 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Job ID: 400-127142-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-127142-1

Metals

Method(s) 6020: Spike compounds were inadvertently omitted during the bench preparation for the post-digestion spike (PDS); therefore, post-digestion spike recoveries are unavailable for preparation batch 324159 and analytical batch 324416. The associated laboratory control sample (LCS), matrix spike/matrix spike duplicate (MS/MSD) met acceptance criteria.

General Chemistry

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 325706 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 325777 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.



Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-1

Lab Sample ID: 400-127142-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.19		0.0025	0.00049	mg/L	5		6020	Total
Boron	0.055		0.050	0.021	mg/L	5		6020	Recoverable Total
Calcium	5.5		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.0038		0.0025	0.00040	mg/L	5		6020	Recoverable Total
Selenium	0.00025	J	0.0013	0.00024	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	88		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	5.5		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.83				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-127142-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.041		0.0025	0.00049	mg/L	5		6020	Total
Boron	0.030	J	0.050	0.021	mg/L	5		6020	Recoverable Total
Calcium	0.62		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.00059	J	0.0025	0.00040	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	26		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.8		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.86				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-127142-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total
Calcium	0.94		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.0019	J	0.0025	0.00040	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	30		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	10		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	4.46				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-127142-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.055		0.0025	0.00049	mg/L	5		6020	Total
Calcium	1.4		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.0015	J	0.0025	0.00040	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-4 (Continued)

Lab Sample ID: 400-127142-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-127142-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.068		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00084	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	34		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.7		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.76				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-127142-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.068		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.1		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0026		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	26		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.8	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.63				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-127142-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.16		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00035	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0024	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	24		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.44				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-127142-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.5		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0019	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-8 (Continued)

Lab Sample ID: 400-127142-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	40		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.71				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-127142-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.040		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.94		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0012	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00024	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	34		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.92				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-127142-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.027		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.74		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00068	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	24		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	5.0	F1	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.6	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.95				SU	1		Field Sampling	Total/NA

Client Sample ID: FD-01

Lab Sample ID: 400-127142-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.068		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0010	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.76				SU	1		Field Sampling	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 400-127142-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.00061	J	0.0025	0.00049	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: EB-01 (Continued)

Lab Sample ID: 400-127142-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.00036	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable

Client Sample ID: FB-01

Lab Sample ID: 400-127142-13

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

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Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
Field Sampling	Field Sampling	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-127142-1	MW-1	Water	09/13/16 10:39	09/14/16 08:20
400-127142-2	MW-2	Water	09/13/16 13:35	09/14/16 08:20
400-127142-3	MW-3	Water	09/12/16 15:44	09/14/16 08:20
400-127142-4	MW-4	Water	09/13/16 08:37	09/14/16 08:20
400-127142-5	MW-5	Water	09/13/16 09:28	09/14/16 08:20
400-127142-6	MW-6	Water	09/12/16 16:40	09/14/16 08:20
400-127142-7	MW-7	Water	09/12/16 13:23	09/14/16 08:20
400-127142-8	MW-8	Water	09/13/16 16:36	09/14/16 08:20
400-127142-9	MW-9	Water	09/13/16 15:09	09/14/16 08:20
400-127142-10	MW-10	Water	09/13/16 11:48	09/14/16 08:20
400-127142-11	FD-01	Water	09/13/16 08:28	09/14/16 08:20
400-127142-12	EB-01	Water	09/13/16 11:01	09/14/16 08:20
400-127142-13	FB-01	Water	09/13/16 11:09	09/14/16 08:20

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 09/13/16 10:39
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 16:27	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 16:27	5
Barium	0.19		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 16:27	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:27	5
Boron	0.055		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 16:27	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:27	5
Calcium	5.5		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 16:27	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 16:27	5
Cobalt	0.0038		0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 16:27	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 16:27	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 16:27	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 16:27	5
Selenium	0.00025	J	0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 16:27	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 16:27	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	88		5.0	3.4	mg/L			09/17/16 17:44	1
Chloride	8.9		2.0	0.60	mg/L			10/06/16 14:45	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 15:47	1
Sulfate	5.5		5.0	1.4	mg/L			10/06/16 14:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.83				SU			09/13/16 10:39	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 09/13/16 13:35
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 16:32	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 16:32	5
Barium	0.041		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 16:32	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:32	5
Boron	0.030	J	0.050	0.021	mg/L		09/26/16 12:03	09/27/16 16:32	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:32	5
Calcium	0.62		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 16:32	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 16:32	5
Cobalt	0.00059	J	0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 16:32	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 16:32	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 16:32	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 16:32	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 16:32	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 16:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		5.0	3.4	mg/L			09/17/16 17:44	1
Chloride	6.8		2.0	0.60	mg/L			10/06/16 14:45	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 15:49	1
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 14:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.86				SU			09/13/16 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 09/12/16 15:44
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 16:36	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 16:36	5
Barium	0.11		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 16:36	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:36	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 16:36	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:36	5
Calcium	0.94		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 16:36	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 16:36	5
Cobalt	0.0019	J	0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 16:36	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 16:36	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 16:36	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 16:36	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 16:36	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 16:36	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		5.0	3.4	mg/L			09/16/16 16:50	1
Chloride	10		2.0	0.60	mg/L			10/06/16 14:09	1
Fluoride	0.040	J	0.10	0.032	mg/L			10/09/16 14:14	1
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 14:01	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.46				SU			09/12/16 15:44	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 09/13/16 08:37
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 16:41	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 16:41	5
Barium	0.055		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 16:41	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:41	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 16:41	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:41	5
Calcium	1.4		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 16:41	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 16:41	5
Cobalt	0.0015 J		0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 16:41	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 16:41	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 16:41	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 16:41	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 16:41	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 16:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			09/17/16 17:44	1
Chloride	6.3		2.0	0.60	mg/L			10/06/16 15:25	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 15:52	1
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 15:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.82				SU			09/13/16 08:37	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 09/13/16 09:28
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 16:45	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 16:45	5
Barium	0.068		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 16:45	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:45	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 16:45	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:45	5
Calcium	2.0		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 16:45	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 16:45	5
Cobalt	0.00084	J	0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 16:45	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 16:45	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 16:45	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 16:45	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 16:45	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 16:45	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	3.4	mg/L			09/20/16 18:08	1
Chloride	8.7		2.0	0.60	mg/L			10/06/16 15:25	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 15:56	1
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 15:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.76				SU			09/13/16 09:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 09/12/16 16:40
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 16:50	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 16:50	5
Barium	0.068		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 16:50	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:50	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 16:50	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:50	5
Calcium	1.1		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 16:50	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 16:50	5
Cobalt	0.0026		0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 16:50	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 16:50	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 16:50	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 16:50	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 16:50	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 16:50	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		5.0	3.4	mg/L			09/16/16 16:50	1
Chloride	6.6		2.0	0.60	mg/L			10/06/16 14:09	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 14:20	1
Sulfate	2.8	J	5.0	1.4	mg/L			10/06/16 14:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.63				SU			09/12/16 16:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 09/12/16 13:23
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 16:55	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 16:55	5
Barium	0.16		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 16:55	5
Beryllium	0.00035	J	0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:55	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 16:55	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 16:55	5
Calcium	1.8		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 16:55	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 16:55	5
Cobalt	0.0024	J	0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 16:55	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 16:55	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 16:55	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 16:55	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 16:55	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 16:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		5.0	3.4	mg/L			09/16/16 16:50	1
Chloride	16		2.0	0.60	mg/L			10/06/16 14:09	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 14:24	1
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 14:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.44				SU			09/12/16 13:23	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 09/13/16 16:36
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 17:12	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 17:12	5
Barium	0.12		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 17:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 17:12	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 17:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 17:12	5
Calcium	2.5		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 17:12	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 17:12	5
Cobalt	0.0019 J		0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 17:12	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 17:12	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 17:12	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 17:12	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 17:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 17:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		5.0	3.4	mg/L			09/20/16 18:08	1
Chloride	7.9		2.0	0.60	mg/L			10/06/16 15:25	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 16:08	1
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 15:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.71				SU			09/13/16 16:36	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 09/13/16 15:09
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 17:17	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 17:17	5
Barium	0.040		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 17:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 17:17	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 17:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 17:17	5
Calcium	0.94		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 17:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 17:17	5
Cobalt	0.0012	J	0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 17:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 17:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 17:17	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 17:17	5
Selenium	0.00024	J	0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 17:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 17:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	3.4	mg/L			09/20/16 18:08	1
Chloride	6.6		2.0	0.60	mg/L			10/06/16 15:25	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 16:16	1
Sulfate	1.5	J	5.0	1.4	mg/L			10/06/16 15:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.92				SU			09/13/16 15:09	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 09/13/16 11:48
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 17:21	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 17:21	5
Barium	0.027		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 17:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 17:21	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 17:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 17:21	5
Calcium	0.74		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 17:21	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 17:21	5
Cobalt	0.00068	J	0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 17:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 17:21	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 17:21	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 17:21	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 17:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 17:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		5.0	3.4	mg/L			09/20/16 18:08	1
Chloride	5.0	F1	2.0	0.60	mg/L			10/06/16 15:25	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 16:20	1
Sulfate	1.6	J	5.0	1.4	mg/L			10/06/16 15:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.95				SU			09/13/16 11:48	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: FD-01
Date Collected: 09/13/16 08:28
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 17:26	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 17:26	5
Barium	0.068		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 17:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 17:26	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 17:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 17:26	5
Calcium	2.2		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 17:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 17:26	5
Cobalt	0.0010	J	0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 17:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 17:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 17:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 17:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 17:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 17:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			09/20/16 18:08	1
Chloride	8.9		2.0	0.60	mg/L			10/06/16 15:25	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 16:24	1
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 15:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.76				SU			09/13/16 08:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 09/13/16 11:01
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 14:35	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 14:35	5
Barium	0.00061	J	0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 14:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 14:35	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 14:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 14:35	5
Calcium	<0.13		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 14:35	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 14:35	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 14:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 14:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 14:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 14:35	5
Selenium	0.00036	J	0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 14:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 14:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			09/20/16 18:08	1
Chloride	<0.60		2.0	0.60	mg/L			10/06/16 15:25	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 16:26	1
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 15:34	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 09/13/16 11:09
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-13
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/27/16 08:45	09/27/16 21:16	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/27/16 08:45	09/27/16 21:16	5
Barium	<0.00049		0.0025	0.00049	mg/L		09/27/16 08:45	09/27/16 21:16	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/27/16 08:45	09/27/16 21:16	5
Boron	<0.021		0.050	0.021	mg/L		09/27/16 08:45	09/27/16 21:16	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/27/16 08:45	09/27/16 21:16	5
Calcium	<0.13		0.25	0.13	mg/L		09/27/16 08:45	09/27/16 21:16	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/27/16 08:45	09/27/16 21:16	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		09/27/16 08:45	09/27/16 21:16	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/27/16 08:45	09/27/16 21:16	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/27/16 08:45	09/27/16 21:16	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/27/16 08:45	09/27/16 21:16	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/27/16 08:45	09/27/16 21:16	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/27/16 08:45	09/27/16 21:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 13:51	09/27/16 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			09/20/16 18:08	1
Chloride	<0.60		2.0	0.60	mg/L			10/06/16 15:25	1
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 16:28	1
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 15:34	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 09/13/16 10:39
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 16:27	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323021	09/17/16 17:44	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325706	10/06/16 14:45	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 15:47	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325707	10/06/16 14:52	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/13/16 10:39	BWS	TAL PEN

Client Sample ID: MW-2
Date Collected: 09/13/16 13:35
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 16:32	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323021	09/17/16 17:44	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325706	10/06/16 14:45	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 15:49	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325707	10/06/16 14:52	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/13/16 13:35	BWS	TAL PEN

Client Sample ID: MW-3
Date Collected: 09/12/16 15:44
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 16:36	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	322911	09/16/16 16:50	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325706	10/06/16 14:09	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	325992	10/09/16 14:14	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325707	10/06/16 14:01	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/12/16 15:44	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 09/13/16 08:37
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 16:41	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:12	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323021	09/17/16 17:44	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325777	10/06/16 15:25	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 15:52	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325748	10/06/16 15:34	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/13/16 08:37	BWS	TAL PEN

Client Sample ID: MW-5
Date Collected: 09/13/16 09:28
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 16:45	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323428	09/20/16 18:08	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325777	10/06/16 15:25	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 15:56	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325748	10/06/16 15:34	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/13/16 09:28	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 09/12/16 16:40
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 16:50	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:14	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	322911	09/16/16 16:50	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325706	10/06/16 14:09	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	325992	10/09/16 14:20	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325707	10/06/16 14:14	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/12/16 16:40	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 09/12/16 13:23
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 16:55	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:15	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	322911	09/16/16 16:50	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325706	10/06/16 14:09	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	325992	10/09/16 14:24	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325707	10/06/16 14:14	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/12/16 13:23	BWS	TAL PEN

Client Sample ID: MW-8
Date Collected: 09/13/16 16:36
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 17:12	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:17	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323428	09/20/16 18:08	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325777	10/06/16 15:25	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 16:08	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325748	10/06/16 15:34	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/13/16 16:36	BWS	TAL PEN

Client Sample ID: MW-9
Date Collected: 09/13/16 15:09
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 17:17	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:18	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323428	09/20/16 18:08	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325777	10/06/16 15:25	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 16:16	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325748	10/06/16 15:34	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/13/16 15:09	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: MW-10

Lab Sample ID: 400-127142-10

Date Collected: 09/13/16 11:48

Matrix: Water

Date Received: 09/14/16 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 17:21	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:19	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323428	09/20/16 18:08	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325777	10/06/16 15:25	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 16:20	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325748	10/06/16 15:34	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/13/16 11:48	BWS	TAL PEN

Client Sample ID: FD-01

Lab Sample ID: 400-127142-11

Date Collected: 09/13/16 08:28

Matrix: Water

Date Received: 09/14/16 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 17:26	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323428	09/20/16 18:08	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325777	10/06/16 15:25	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 16:24	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325748	10/06/16 15:34	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	326136	09/13/16 08:28	BWS	TAL PEN

Client Sample ID: EB-01

Lab Sample ID: 400-127142-12

Date Collected: 09/13/16 11:01

Matrix: Water

Date Received: 09/14/16 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324120	09/26/16 12:03	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 14:35	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:33	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323428	09/20/16 18:08	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325777	10/06/16 15:25	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 16:26	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325748	10/06/16 15:34	SEH	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 09/13/16 11:09
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			324159	09/27/16 08:45	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	324416	09/27/16 21:16	RJB	TAL PEN
Total/NA	Prep	7470A			323318	09/20/16 13:51	JAP	TAL PEN
Total/NA	Analysis	7470A		1	324310	09/27/16 13:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	323428	09/20/16 18:08	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	325777	10/06/16 15:25	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	326000	10/09/16 16:28	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	325748	10/06/16 15:34	SEH	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Metals

Prep Batch: 323318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total/NA	Water	7470A	
400-127142-2	MW-2	Total/NA	Water	7470A	
400-127142-3	MW-3	Total/NA	Water	7470A	
400-127142-4	MW-4	Total/NA	Water	7470A	
400-127142-5	MW-5	Total/NA	Water	7470A	
400-127142-6	MW-6	Total/NA	Water	7470A	
400-127142-7	MW-7	Total/NA	Water	7470A	
400-127142-8	MW-8	Total/NA	Water	7470A	
400-127142-9	MW-9	Total/NA	Water	7470A	
400-127142-10	MW-10	Total/NA	Water	7470A	
400-127142-11	FD-01	Total/NA	Water	7470A	
400-127142-12	EB-01	Total/NA	Water	7470A	
400-127142-13	FB-01	Total/NA	Water	7470A	
MB 400-323318/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-323318/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-127371-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	
400-127371-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 324120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total Recoverable	Water	3005A	
400-127142-2	MW-2	Total Recoverable	Water	3005A	
400-127142-3	MW-3	Total Recoverable	Water	3005A	
400-127142-4	MW-4	Total Recoverable	Water	3005A	
400-127142-5	MW-5	Total Recoverable	Water	3005A	
400-127142-6	MW-6	Total Recoverable	Water	3005A	
400-127142-7	MW-7	Total Recoverable	Water	3005A	
400-127142-8	MW-8	Total Recoverable	Water	3005A	
400-127142-9	MW-9	Total Recoverable	Water	3005A	
400-127142-10	MW-10	Total Recoverable	Water	3005A	
400-127142-11	FD-01	Total Recoverable	Water	3005A	
400-127142-12	EB-01	Total Recoverable	Water	3005A	
MB 400-324120/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-324120/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-127371-B-1-B MS ^10	Matrix Spike	Total Recoverable	Water	3005A	
400-127371-B-1-C MSD ^10	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 324159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-13	FB-01	Total Recoverable	Water	3005A	
MB 400-324159/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-324159/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-127600-M-3-D MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-127600-M-3-E MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 324310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total/NA	Water	7470A	323318
400-127142-2	MW-2	Total/NA	Water	7470A	323318
400-127142-3	MW-3	Total/NA	Water	7470A	323318
400-127142-4	MW-4	Total/NA	Water	7470A	323318

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Metals (Continued)

Analysis Batch: 324310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-5	MW-5	Total/NA	Water	7470A	323318
400-127142-6	MW-6	Total/NA	Water	7470A	323318
400-127142-7	MW-7	Total/NA	Water	7470A	323318
400-127142-8	MW-8	Total/NA	Water	7470A	323318
400-127142-9	MW-9	Total/NA	Water	7470A	323318
400-127142-10	MW-10	Total/NA	Water	7470A	323318
400-127142-11	FD-01	Total/NA	Water	7470A	323318
400-127142-12	EB-01	Total/NA	Water	7470A	323318
400-127142-13	FB-01	Total/NA	Water	7470A	323318
MB 400-323318/14-A	Method Blank	Total/NA	Water	7470A	323318
LCS 400-323318/15-A	Lab Control Sample	Total/NA	Water	7470A	323318
400-127371-A-1-B MS	Matrix Spike	Total/NA	Water	7470A	323318
400-127371-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	323318

Analysis Batch: 324416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total Recoverable	Water	6020	324120
400-127142-2	MW-2	Total Recoverable	Water	6020	324120
400-127142-3	MW-3	Total Recoverable	Water	6020	324120
400-127142-4	MW-4	Total Recoverable	Water	6020	324120
400-127142-5	MW-5	Total Recoverable	Water	6020	324120
400-127142-6	MW-6	Total Recoverable	Water	6020	324120
400-127142-7	MW-7	Total Recoverable	Water	6020	324120
400-127142-8	MW-8	Total Recoverable	Water	6020	324120
400-127142-9	MW-9	Total Recoverable	Water	6020	324120
400-127142-10	MW-10	Total Recoverable	Water	6020	324120
400-127142-11	FD-01	Total Recoverable	Water	6020	324120
400-127142-12	EB-01	Total Recoverable	Water	6020	324120
400-127142-13	FB-01	Total Recoverable	Water	6020	324159
MB 400-324120/1-A ^5	Method Blank	Total Recoverable	Water	6020	324120
MB 400-324159/1-A ^5	Method Blank	Total Recoverable	Water	6020	324159
LCS 400-324120/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	324120
LCS 400-324159/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	324159
400-127371-B-1-B MS ^10	Matrix Spike	Total Recoverable	Water	6020	324120
400-127371-B-1-C MSD ^10	Matrix Spike Duplicate	Total Recoverable	Water	6020	324120
400-127600-M-3-D MS ^5	Matrix Spike	Total Recoverable	Water	6020	324159
400-127600-M-3-E MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	324159

General Chemistry

Analysis Batch: 322911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-3	MW-3	Total/NA	Water	SM 2540C	
400-127142-6	MW-6	Total/NA	Water	SM 2540C	
400-127142-7	MW-7	Total/NA	Water	SM 2540C	
MB 400-322911/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-322911/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-126926-A-7 DU	Duplicate	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 323021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total/NA	Water	SM 2540C	
400-127142-2	MW-2	Total/NA	Water	SM 2540C	
400-127142-4	MW-4	Total/NA	Water	SM 2540C	
MB 400-323021/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-323021/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-127140-A-5 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 323428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-5	MW-5	Total/NA	Water	SM 2540C	
400-127142-8	MW-8	Total/NA	Water	SM 2540C	
400-127142-9	MW-9	Total/NA	Water	SM 2540C	
400-127142-10	MW-10	Total/NA	Water	SM 2540C	
400-127142-11	FD-01	Total/NA	Water	SM 2540C	
400-127142-12	EB-01	Total/NA	Water	SM 2540C	
400-127142-13	FB-01	Total/NA	Water	SM 2540C	
MB 400-323428/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-323428/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-127142-5 DU	MW-5	Total/NA	Water	SM 2540C	

Analysis Batch: 325706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total/NA	Water	SM 4500 Cl- E	
400-127142-2	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-127142-3	MW-3	Total/NA	Water	SM 4500 Cl- E	
400-127142-6	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-127142-7	MW-7	Total/NA	Water	SM 4500 Cl- E	
MB 400-325706/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-325706/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-325706/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-127140-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-127140-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 325707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-127142-2	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-127142-3	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-127142-6	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-127142-7	MW-7	Total/NA	Water	SM 4500 SO4 E	
MB 400-325707/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-325707/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-325707/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-127140-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-127140-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 325748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-4	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-127142-5	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-127142-8	MW-8	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 325748 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-9	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-127142-10	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-127142-11	FD-01	Total/NA	Water	SM 4500 SO4 E	
400-127142-12	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-127142-13	FB-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-325748/18	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-325748/25	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-325748/15	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-127142-10 MS	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-127142-10 MSD	MW-10	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 325777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-4	MW-4	Total/NA	Water	SM 4500 Cl- E	
400-127142-5	MW-5	Total/NA	Water	SM 4500 Cl- E	
400-127142-8	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-127142-9	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-127142-10	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-127142-11	FD-01	Total/NA	Water	SM 4500 Cl- E	
400-127142-12	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-127142-13	FB-01	Total/NA	Water	SM 4500 Cl- E	
MB 400-325777/18	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-325777/19	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-325777/15	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-127142-10 MS	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-127142-10 MSD	MW-10	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 325992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-3	MW-3	Total/NA	Water	SM 4500 F C	
400-127142-6	MW-6	Total/NA	Water	SM 4500 F C	
400-127142-7	MW-7	Total/NA	Water	SM 4500 F C	
MB 400-325992/5	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-325992/6	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-127559-C-10 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-127559-C-10 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-127142-3 DU	MW-3	Total/NA	Water	SM 4500 F C	

Analysis Batch: 326000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total/NA	Water	SM 4500 F C	
400-127142-2	MW-2	Total/NA	Water	SM 4500 F C	
400-127142-4	MW-4	Total/NA	Water	SM 4500 F C	
400-127142-5	MW-5	Total/NA	Water	SM 4500 F C	
400-127142-8	MW-8	Total/NA	Water	SM 4500 F C	
400-127142-9	MW-9	Total/NA	Water	SM 4500 F C	
400-127142-10	MW-10	Total/NA	Water	SM 4500 F C	
400-127142-11	FD-01	Total/NA	Water	SM 4500 F C	
400-127142-12	EB-01	Total/NA	Water	SM 4500 F C	
400-127142-13	FB-01	Total/NA	Water	SM 4500 F C	
MB 400-326000/3	Method Blank	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 326000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-326000/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-127141-A-6 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-127141-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-127142-9 DU	MW-9	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 326136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total/NA	Water	Field Sampling	
400-127142-2	MW-2	Total/NA	Water	Field Sampling	
400-127142-3	MW-3	Total/NA	Water	Field Sampling	
400-127142-4	MW-4	Total/NA	Water	Field Sampling	
400-127142-5	MW-5	Total/NA	Water	Field Sampling	
400-127142-6	MW-6	Total/NA	Water	Field Sampling	
400-127142-7	MW-7	Total/NA	Water	Field Sampling	
400-127142-8	MW-8	Total/NA	Water	Field Sampling	
400-127142-9	MW-9	Total/NA	Water	Field Sampling	
400-127142-10	MW-10	Total/NA	Water	Field Sampling	
400-127142-11	FD-01	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-324120/1-A ^5
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 324120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/26/16 12:03	09/27/16 14:26	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/26/16 12:03	09/27/16 14:26	5
Barium	<0.00049		0.0025	0.00049	mg/L		09/26/16 12:03	09/27/16 14:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 14:26	5
Boron	<0.021		0.050	0.021	mg/L		09/26/16 12:03	09/27/16 14:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/26/16 12:03	09/27/16 14:26	5
Calcium	<0.13		0.25	0.13	mg/L		09/26/16 12:03	09/27/16 14:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/26/16 12:03	09/27/16 14:26	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		09/26/16 12:03	09/27/16 14:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/26/16 12:03	09/27/16 14:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/26/16 12:03	09/27/16 14:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/26/16 12:03	09/27/16 14:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/26/16 12:03	09/27/16 14:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/26/16 12:03	09/27/16 14:26	5

Lab Sample ID: LCS 400-324120/2-A ^1
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 324120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0506		mg/L		101	80 - 120
Arsenic	0.0500	0.0524		mg/L		105	80 - 120
Barium	0.0500	0.0494		mg/L		99	80 - 120
Beryllium	0.0500	0.0474		mg/L		95	80 - 120
Boron	0.100	0.0943		mg/L		94	80 - 120
Cadmium	0.0500	0.0516		mg/L		103	80 - 120
Calcium	5.00	5.05		mg/L		101	80 - 120
Chromium	0.0500	0.0504		mg/L		101	80 - 120
Cobalt	0.0500	0.0515		mg/L		103	80 - 120
Lead	0.0500	0.0493		mg/L		99	80 - 120
Lithium	0.0500	0.0493		mg/L		99	80 - 120
Molybdenum	0.0500	0.0491		mg/L		98	80 - 120
Selenium	0.0500	0.0499		mg/L		100	80 - 120
Thallium	0.0100	0.00976		mg/L		98	80 - 120

Lab Sample ID: 400-127371-B-1-B MS ^10
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 324120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0020		0.0500	0.0554		mg/L		111	75 - 125
Arsenic	0.064		0.0500	0.113		mg/L		98	75 - 125
Barium	0.016		0.0500	0.0642		mg/L		97	75 - 125
Beryllium	<0.00068		0.0500	0.0475		mg/L		95	75 - 125
Boron	0.57		0.100	0.625	4	mg/L		55	75 - 125
Cadmium	<0.00068		0.0500	0.0512		mg/L		102	75 - 125
Chromium	<0.0022		0.0500	0.0519		mg/L		104	75 - 125
Cobalt	<0.00080		0.0500	0.0535		mg/L		107	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-127371-B-1-B MS ^10
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 324120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	<0.00070		0.0500	0.0503		mg/L		101	75 - 125
Lithium	<0.0064		0.0500	0.0525		mg/L		105	75 - 125
Molybdenum	0.0075	J	0.0500	0.0590		mg/L		103	75 - 125
Selenium	0.00078	J	0.0500	0.0440		mg/L		87	75 - 125
Thallium	<0.00017		0.0100	0.0101		mg/L		101	75 - 125

Lab Sample ID: 400-127371-B-1-C MSD ^10
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 324120

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	<0.0020		0.0500	0.0519		mg/L		104	75 - 125	7	20
Arsenic	0.064		0.0500	0.111		mg/L		93	75 - 125	2	20
Barium	0.016		0.0500	0.0650		mg/L		99	75 - 125	1	20
Beryllium	<0.00068		0.0500	0.0479		mg/L		96	75 - 125	1	20
Boron	0.57		0.100	0.666	4	mg/L		96	75 - 125	6	20
Cadmium	<0.00068		0.0500	0.0518		mg/L		104	75 - 125	1	20
Chromium	<0.0022		0.0500	0.0522		mg/L		104	75 - 125	1	20
Cobalt	<0.00080		0.0500	0.0536		mg/L		107	75 - 125	0	20
Lead	<0.00070		0.0500	0.0505		mg/L		101	75 - 125	0	20
Lithium	<0.0064		0.0500	0.0526		mg/L		105	75 - 125	0	20
Molybdenum	0.0075	J	0.0500	0.0551		mg/L		95	75 - 125	7	20
Selenium	0.00078	J	0.0500	0.0445		mg/L		87	75 - 125	1	20
Thallium	<0.00017		0.0100	0.00996		mg/L		100	75 - 125	1	20

Lab Sample ID: MB 400-324159/1-A ^5
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 324159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		09/27/16 08:45	09/27/16 22:33	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		09/27/16 08:45	09/27/16 22:33	5
Barium	<0.00049		0.0025	0.00049	mg/L		09/27/16 08:45	09/27/16 22:33	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		09/27/16 08:45	09/27/16 22:33	5
Boron	<0.021		0.050	0.021	mg/L		09/27/16 08:45	09/27/16 22:33	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		09/27/16 08:45	09/27/16 22:33	5
Calcium	<0.13		0.25	0.13	mg/L		09/27/16 08:45	09/27/16 22:33	5
Chromium	<0.0011		0.0025	0.0011	mg/L		09/27/16 08:45	09/27/16 22:33	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		09/27/16 08:45	09/27/16 22:33	5
Lead	<0.00035		0.0013	0.00035	mg/L		09/27/16 08:45	09/27/16 22:33	5
Lithium	<0.0032		0.0050	0.0032	mg/L		09/27/16 08:45	09/27/16 22:33	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		09/27/16 08:45	09/27/16 22:33	5
Selenium	<0.00024		0.0013	0.00024	mg/L		09/27/16 08:45	09/27/16 22:33	5
Thallium	<0.000085		0.00050	0.000085	mg/L		09/27/16 08:45	09/27/16 22:33	5

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 400-324159/2-A ^1
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 324159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0493		mg/L		99	80 - 120
Arsenic	0.0500	0.0516		mg/L		103	80 - 120
Barium	0.0500	0.0473		mg/L		95	80 - 120
Beryllium	0.0500	0.0449		mg/L		90	80 - 120
Boron	0.100	0.106		mg/L		106	80 - 120
Cadmium	0.0500	0.0504		mg/L		101	80 - 120
Calcium	5.00	4.97		mg/L		99	80 - 120
Chromium	0.0500	0.0494		mg/L		99	80 - 120
Cobalt	0.0500	0.0498		mg/L		100	80 - 120
Lead	0.0500	0.0491		mg/L		98	80 - 120
Lithium	0.0500	0.0477		mg/L		95	80 - 120
Molybdenum	0.0500	0.0490		mg/L		98	80 - 120
Selenium	0.0500	0.0481		mg/L		96	80 - 120
Thallium	0.0100	0.00948		mg/L		95	80 - 120

Lab Sample ID: 400-127600-M-3-D MS ^5
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 324159

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0010		0.0500	0.0523		mg/L		105	75 - 125
Arsenic	<0.00046		0.0500	0.0551		mg/L		110	75 - 125
Barium	0.016		0.0500	0.0677		mg/L		103	75 - 125
Beryllium	<0.00034		0.0500	0.0467		mg/L		93	75 - 125
Boron	0.036	J B	0.100	0.135		mg/L		99	75 - 125
Cadmium	<0.00034		0.0500	0.0528		mg/L		106	75 - 125
Calcium	60		5.00	65.0	4	mg/L		92	75 - 125
Chromium	<0.0011		0.0500	0.0526		mg/L		105	75 - 125
Cobalt	<0.00040		0.0500	0.0528		mg/L		106	75 - 125
Lead	0.00035	J	0.0500	0.0503		mg/L		100	75 - 125
Lithium	0.0055		0.0500	0.0568		mg/L		103	75 - 125
Molybdenum	<0.00085		0.0500	0.0510		mg/L		102	75 - 125
Selenium	<0.00024		0.0500	0.0520		mg/L		104	75 - 125
Thallium	<0.000085		0.0100	0.00986		mg/L		99	75 - 125

Lab Sample ID: 400-127600-M-3-E MSD ^5
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 324159

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0525		mg/L		105	75 - 125	0	20
Arsenic	<0.00046		0.0500	0.0552		mg/L		110	75 - 125	0	20
Barium	0.016		0.0500	0.0659		mg/L		99	75 - 125	3	20
Beryllium	<0.00034		0.0500	0.0474		mg/L		95	75 - 125	2	20
Boron	0.036	J B	0.100	0.126		mg/L		90	75 - 125	7	20
Cadmium	<0.00034		0.0500	0.0510		mg/L		102	75 - 125	4	20
Calcium	60		5.00	65.3	4	mg/L		98	75 - 125	0	20
Chromium	<0.0011		0.0500	0.0525		mg/L		105	75 - 125	0	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-127600-M-3-E MSD ^5
Matrix: Water
Analysis Batch: 324416

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 324159

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Cobalt	<0.00040		0.0500	0.0528		mg/L		106	75 - 125	0	20
Lead	0.00035	J	0.0500	0.0498		mg/L		99	75 - 125	1	20
Lithium	0.0055		0.0500	0.0572		mg/L		103	75 - 125	1	20
Molybdenum	<0.00085		0.0500	0.0514		mg/L		103	75 - 125	1	20
Selenium	<0.00024		0.0500	0.0510		mg/L		102	75 - 125	2	20
Thallium	<0.000085		0.0100	0.00976		mg/L		98	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-323318/14-A
Matrix: Water
Analysis Batch: 324310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323318

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000070		0.00020	0.000070	mg/L		09/20/16 09:43	09/27/16 12:45	1

Lab Sample ID: LCS 400-323318/15-A
Matrix: Water
Analysis Batch: 324310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323318

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	0.00101	0.000981		mg/L		97	80 - 120

Lab Sample ID: 400-127371-A-1-B MS
Matrix: Water
Analysis Batch: 324310

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 323318

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	<0.000070		0.00201	0.00190		mg/L		95	80 - 120

Lab Sample ID: 400-127371-A-1-C MSD
Matrix: Water
Analysis Batch: 324310

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 323318

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	<0.000070		0.00201	0.00187		mg/L		93	80 - 120	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-322911/1
Matrix: Water
Analysis Batch: 322911

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			09/16/16 16:50	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 400-322911/2
Matrix: Water
Analysis Batch: 322911

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	258		mg/L		88	78 - 122

Lab Sample ID: 400-126926-A-7 DU
Matrix: Water
Analysis Batch: 322911

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5200		5230		mg/L		0.6	5

Lab Sample ID: MB 400-323021/1
Matrix: Water
Analysis Batch: 323021

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			09/17/16 17:44	1

Lab Sample ID: LCS 400-323021/2
Matrix: Water
Analysis Batch: 323021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	296		mg/L		101	78 - 122

Lab Sample ID: 400-127140-A-5 DU
Matrix: Water
Analysis Batch: 323021

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	92		92.0		mg/L		0	5

Lab Sample ID: MB 400-323428/1
Matrix: Water
Analysis Batch: 323428

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			09/20/16 18:08	1

Lab Sample ID: LCS 400-323428/2
Matrix: Water
Analysis Batch: 323428

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	264		mg/L		90	78 - 122

Lab Sample ID: 400-127142-5 DU
Matrix: Water
Analysis Batch: 323428

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	34		34.0		mg/L		0	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
 SDG: Gypsum

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-325706/6
Matrix: Water
Analysis Batch: 325706

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			10/06/16 13:41	1

Lab Sample ID: LCS 400-325706/7
Matrix: Water
Analysis Batch: 325706

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.1		mg/L		100	90 - 110

Lab Sample ID: MRL 400-325706/3
Matrix: Water
Analysis Batch: 325706

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.21	J	mg/L		60	50 - 150

Lab Sample ID: 400-127140-A-1 MS
Matrix: Water
Analysis Batch: 325706

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4.8	F1	10.0	17.4	F1	mg/L		125	73 - 120

Lab Sample ID: 400-127140-A-1 MSD
Matrix: Water
Analysis Batch: 325706

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4.8	F1	10.0	17.0	F1	mg/L		122	73 - 120	2	8

Lab Sample ID: MB 400-325777/18
Matrix: Water
Analysis Batch: 325777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			10/06/16 15:27	1

Lab Sample ID: LCS 400-325777/19
Matrix: Water
Analysis Batch: 325777

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.9		mg/L		103	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: MRL 400-325777/15
Matrix: Water
Analysis Batch: 325777

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.38	J	mg/L		69	50 - 150

Lab Sample ID: 400-127142-10 MS
Matrix: Water
Analysis Batch: 325777

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	5.0	F1	10.0	17.3	F1	mg/L		123	73 - 120

Lab Sample ID: 400-127142-10 MSD
Matrix: Water
Analysis Batch: 325777

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5.0	F1	10.0	17.2	F1	mg/L		122	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-325992/5
Matrix: Water
Analysis Batch: 325992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 13:28	1

Lab Sample ID: LCS 400-325992/6
Matrix: Water
Analysis Batch: 325992

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.09		mg/L		102	90 - 110

Lab Sample ID: 400-127559-C-10 MS
Matrix: Water
Analysis Batch: 325992

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.040	J	1.00	1.08		mg/L		104	75 - 125

Lab Sample ID: 400-127559-C-10 MSD
Matrix: Water
Analysis Batch: 325992

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.040	J	1.00	1.06		mg/L		102	75 - 125	2	4

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-127142-3 DU
Matrix: Water
Analysis Batch: 325992

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Fluoride	0.040	J	0.0400	J	mg/L		0	4

Lab Sample ID: MB 400-326000/3
Matrix: Water
Analysis Batch: 326000

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			10/09/16 15:25	1

Lab Sample ID: LCS 400-326000/4
Matrix: Water
Analysis Batch: 326000

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.17		mg/L		104	90 - 110

Lab Sample ID: 400-127141-A-6 MS
Matrix: Water
Analysis Batch: 326000

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	1.04		mg/L		104	75 - 125

Lab Sample ID: 400-127141-A-6 MSD
Matrix: Water
Analysis Batch: 326000

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Fluoride	<0.032		1.00	1.01		mg/L		101	75 - 125	3	4

Lab Sample ID: 400-127142-9 DU
Matrix: Water
Analysis Batch: 326000

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Fluoride	<0.032		<0.032		mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-325707/6
Matrix: Water
Analysis Batch: 325707

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 13:43	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
SDG: Gypsum

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 400-325707/7
Matrix: Water
Analysis Batch: 325707

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.3		mg/L		95	90 - 110

Lab Sample ID: MRL 400-325707/3
Matrix: Water
Analysis Batch: 325707

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.71	J	mg/L		94	50 - 150

Lab Sample ID: 400-127140-A-1 MS
Matrix: Water
Analysis Batch: 325707

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4		10.0	10.1		mg/L		101	77 - 128

Lab Sample ID: 400-127140-A-1 MSD
Matrix: Water
Analysis Batch: 325707

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4		10.0	10.1		mg/L		101	77 - 128	0	5

Lab Sample ID: MB 400-325748/18
Matrix: Water
Analysis Batch: 325748

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			10/06/16 15:38	1

Lab Sample ID: LCS 400-325748/25
Matrix: Water
Analysis Batch: 325748

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.3		mg/L		95	90 - 110

Lab Sample ID: MRL 400-325748/15
Matrix: Water
Analysis Batch: 325748

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.11	J	mg/L		82	50 - 150

Lab Sample ID: 400-127142-10 MS
Matrix: Water
Analysis Batch: 325748

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.6	J	10.0	9.65		mg/L		81	77 - 128

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
 SDG: Gypsum

Lab Sample ID: 400-127142-10 MSD
Matrix: Water
Analysis Batch: 325748

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	1.6	J	10.0	9.73		mg/L		82	77 - 128	1	5

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Chain of Custody Record

Client Information
 Client Contact: *Mr. Cale Sellers*
 Company: Southern Company
 Address: PO BOX 2641 GSC8
 City: Birmingham
 State, Zip: AL, 35291
 Phone: 205-992-7762(Tel)
 Email: CBSELLER@SOUTHERNCO.COM
 Project Name: CCR -Plant Daniel
 Site: Gypsum

Sampler: *Nice Henderson / Colton Evans*
 Lab PM: Whitmire, Cheyenne R
 Phone: 850-336-0192
 E-Mail: cheyenne.whitmire@testamericainc.com

COC No: 400-55446-23825.1
 Page: 1 of 2
 Job #:

Carrier Tracking No(s):

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=BIOTECH, AS=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Field Sampling Parameters		Analysis Requested	Total Number of Containers	Special Instructions/Notes
					D	N	D	N	Mercury	6020 - Sb,As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, 7470A -			
MW-1	9-13-16	1039	G	Water	X	X	X	X	X	X		3	
MW-2	9-13-16	1335	G	Water	X	X	X	X	X	X		3	
MW-3	9-12-16	1544	G	Water	X	X	X	X	X	X		3	
MW-4	9-13-16	0837	G	Water	X	X	X	X	X	X		3	
MW-5	9-13-16	0928	G	Water	X	X	X	X	X	X		3	
MW-6	9-12-16	1640	G	Water	X	X	X	X	X	X		3	
MW-7	9-12-16	1323	G	Water	X	X	X	X	X	X		3	
MW-8	9-13-16	1636	G	Water	X	X	X	X	X	X		3	400-127142 COC
MW-9	9-13-16	1509	G	Water	X	X	X	X	X	X		3	
MW-10	9-13-16	1148	G	Water	X	X	X	X	X	X		3	
MW-11	9-13-16	0828	G	Water	X	X	X	X	X	X		3	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
Relinquished by: *[Signature]* Date/Time: 9/14/16 0820 Company: *[Signature]*
Relinquished by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: 1.0°C, 2.0°C, 3.0°C IR6



Chain of Custody Record

Client Information Supplier: <i>Rex Henderson / Colton Evans</i> Lab PM: Whitmire, Cheyenne R Phone: <i>850-336-0192</i> E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking No(s): COC No: 400-55446-23825.1 Page: <i>2 of 2</i> Job #:	
Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) PO #: Purchase Order not required WO #:		Analysis Requested Field Sampling Parameters 9316_Ra226, 9320_Ra228, Ra226Ra228_GFPc 5M4500 Cl-E-Chloride, 5M4500 SO4-E-Sulfate, 2540C- 6020-Sb,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl, 7470A - Mercury 5M4500 Cl-E-Chloride, 4500 F-C-Fluoride	
Project Name: CCR -Plant Daniel Project #: 40006621 Site: Gypsum		Preservation M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP U - Dodecahydrate V - Acetone W - MCAA X - pH 4-5 Z - other (specify)	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Total Number of Containers:	
Matrix (w=water, s=solid, o=waste/soil, br=tissue, as=air) Sample Type (C=comp, G=grab) Sample Date Sample Time Matrix		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)	
Sample Identification EB-01 FB-01 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10		Special Instructions/Notes 3 3	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: <i>W. J. Carr</i> Relinquished by: <i>W. J. Carr</i> Relinquished by: Relinquished by:		Date/Time: 9/14/16 0820 Date/Time: Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 1.0°C 2.0°C, 3.0°C IP6	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-127142-1

SDG Number: Gypsum

Login Number: 127142

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0°C, 2.0°C, 3.0°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-1
 SDG: Gypsum

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-127142-2

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

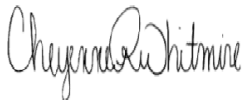
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

10/19/2016 5:51:09 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Job ID: 400-127142-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-127142-2

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-271450: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-1 (400-127142-1), MW-2 (400-127142-2), MW-3 (400-127142-3), MW-4 (400-127142-4), MW-5 (400-127142-5), MW-6 (400-127142-6), MW-7 (400-127142-7), MW-8 (400-127142-8), MW-9 (400-127142-9), MW-10 (400-127142-10), FD-01 (400-127142-11), EB-01 (400-127142-12) and FB-01 (400-127142-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-271448: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-1 (400-127142-1), MW-2 (400-127142-2), MW-3 (400-127142-3), MW-4 (400-127142-4), MW-5 (400-127142-5), MW-6 (400-127142-6), MW-7 (400-127142-7), MW-8 (400-127142-8), MW-9 (400-127142-9), MW-10 (400-127142-10), FD-01 (400-127142-11), EB-01 (400-127142-12) and FB-01 (400-127142-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.



Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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



Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-127142-1	MW-1	Water	09/13/16 10:39	09/14/16 08:20
400-127142-2	MW-2	Water	09/13/16 13:35	09/14/16 08:20
400-127142-3	MW-3	Water	09/12/16 15:44	09/14/16 08:20
400-127142-4	MW-4	Water	09/13/16 08:37	09/14/16 08:20
400-127142-5	MW-5	Water	09/13/16 09:28	09/14/16 08:20
400-127142-6	MW-6	Water	09/12/16 16:40	09/14/16 08:20
400-127142-7	MW-7	Water	09/12/16 13:23	09/14/16 08:20
400-127142-8	MW-8	Water	09/13/16 16:36	09/14/16 08:20
400-127142-9	MW-9	Water	09/13/16 15:09	09/14/16 08:20
400-127142-10	MW-10	Water	09/13/16 11:48	09/14/16 08:20
400-127142-11	FD-01	Water	09/13/16 08:28	09/14/16 08:20
400-127142-12	EB-01	Water	09/13/16 11:01	09/14/16 08:20
400-127142-13	FB-01	Water	09/13/16 11:09	09/14/16 08:20

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
 SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 09/13/16 10:39
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-1
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	0.691		0.124	0.139	1.00	0.0918	pCi/L	09/23/16 18:24	10/17/16 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					09/23/16 18:24	10/17/16 10:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.780		0.301	0.310	1.00	0.419	pCi/L	09/23/16 21:25	10/10/16 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					09/23/16 21:25	10/10/16 14:36	1
Y Carrier	88.2		40 - 110					09/23/16 21:25	10/10/16 14:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.47		0.326	0.339	5.00	0.419	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 09/13/16 13:35
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-2
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	0.294		0.0856	0.0896	1.00	0.0817	pCi/L	09/23/16 18:24	10/17/16 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					09/23/16 18:24	10/17/16 10:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.782		0.289	0.298	1.00	0.394	pCi/L	09/23/16 21:25	10/10/16 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					09/23/16 21:25	10/10/16 14:37	1
Y Carrier	90.1		40 - 110					09/23/16 21:25	10/10/16 14:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.301	0.311	5.00	0.394	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 09/12/16 15:44
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-3
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	0.867		0.135	0.156	1.00	0.0807	pCi/L	09/23/16 18:24	10/17/16 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					09/23/16 18:24	10/17/16 10:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.65		0.361	0.392	1.00	0.416	pCi/L	09/23/16 21:25	10/10/16 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					09/23/16 21:25	10/10/16 14:37	1
Y Carrier	89.3		40 - 110					09/23/16 21:25	10/10/16 14:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.52		0.385	0.422	5.00	0.416	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 09/13/16 08:37
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-4
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	0.431		0.0988	0.106	1.00	0.0783	pCi/L	09/23/16 18:24	10/17/16 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/23/16 18:24	10/17/16 10:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.570		0.274	0.279	1.00	0.398	pCi/L	09/23/16 21:25	10/10/16 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/23/16 21:25	10/10/16 14:37	1
Y Carrier	92.3		40 - 110					09/23/16 21:25	10/10/16 14:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.00		0.291	0.299	5.00	0.398	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 09/13/16 09:28
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-5
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	0.565		0.121	0.131	1.00	0.113	pCi/L	09/23/16 18:24	10/17/16 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/23/16 18:24	10/17/16 10:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.943		0.296	0.309	1.00	0.390	pCi/L	09/23/16 21:25	10/10/16 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/23/16 21:25	10/10/16 14:37	1
Y Carrier	95.3		40 - 110					09/23/16 21:25	10/10/16 14:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.51		0.320	0.335	5.00	0.390	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 09/12/16 16:40
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-6
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	0.436		0.101	0.109	1.00	0.0784	pCi/L	09/23/16 18:24	10/17/16 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		40 - 110					09/23/16 18:24	10/17/16 10:20	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.832		0.316	0.325	1.00	0.436	pCi/L	09/23/16 21:25	10/10/16 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.9		40 - 110					09/23/16 21:25	10/10/16 14:37	1
Y Carrier	92.3		40 - 110					09/23/16 21:25	10/10/16 14:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.27		0.332	0.343	5.00	0.436	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 09/12/16 13:23
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-7
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	1.07		0.145	0.174	1.00	0.0901	pCi/L	09/23/16 18:24	10/17/16 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/23/16 18:24	10/17/16 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.60		0.331	0.362	1.00	0.365	pCi/L	09/23/16 21:25	10/10/16 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/23/16 21:25	10/10/16 14:37	1
Y Carrier	91.2		40 - 110					09/23/16 21:25	10/10/16 14:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.67		0.361	0.402	5.00	0.365	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
 SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 09/13/16 16:36
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-8
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	0.668		0.118	0.132	1.00	0.0821	pCi/L	09/23/16 18:24	10/17/16 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					09/23/16 18:24	10/17/16 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.311	0.325	1.00	0.405	pCi/L	09/23/16 21:25	10/10/16 14:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					09/23/16 21:25	10/10/16 14:37	1
Y Carrier	91.2		40 - 110					09/23/16 21:25	10/10/16 14:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.70		0.332	0.351	5.00	0.405	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 09/13/16 15:09
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-9
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	0.297		0.0874	0.0914	1.00	0.0900	pCi/L	09/23/16 18:24	10/17/16 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					09/23/16 18:24	10/17/16 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.748		0.295	0.302	1.00	0.414	pCi/L	09/23/16 21:25	10/10/16 14:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					09/23/16 21:25	10/10/16 14:38	1
Y Carrier	92.3		40 - 110					09/23/16 21:25	10/10/16 14:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.04		0.307	0.316	5.00	0.414	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
 SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 09/13/16 11:48
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-10
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	0.225		0.0729	0.0757	1.00	0.0712	pCi/L	09/23/16 18:24	10/17/16 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/23/16 18:24	10/17/16 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.435		0.271	0.274	1.00	0.417	pCi/L	09/23/16 21:25	10/10/16 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		40 - 110					09/23/16 21:25	10/10/16 14:39	1
Y Carrier	89.3		40 - 110					09/23/16 21:25	10/10/16 14:39	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	0.660		0.280	0.284	5.00	0.417	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: FD-01
Date Collected: 09/13/16 08:28
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-11
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	0.494		0.112	0.120	1.00	0.107	pCi/L	09/23/16 18:24	10/17/16 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/23/16 18:24	10/17/16 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.904		0.309	0.320	1.00	0.420	pCi/L	09/23/16 21:25	10/10/16 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					09/23/16 21:25	10/10/16 14:39	1
Y Carrier	93.1		40 - 110					09/23/16 21:25	10/10/16 14:39	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	1.40		0.329	0.342	5.00	0.420	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 09/13/16 11:01
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-12
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	0.0255	U	0.0435	0.0436	1.00	0.0758	pCi/L	09/23/16 18:24	10/17/16 10:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					09/23/16 18:24	10/17/16 10:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0692	U	0.213	0.213	1.00	0.396	pCi/L	09/23/16 21:25	10/10/16 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					09/23/16 21:25	10/10/16 14:39	1
Y Carrier	91.6		40 - 110					09/23/16 21:25	10/10/16 14:39	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	-0.0437	U	0.217	0.218	5.00	0.396	pCi/L		10/18/16 13:02	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 09/13/16 11:09
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-13
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	0.0263	U	0.0407	0.0408	1.00	0.0700	pCi/L	09/23/16 18:24	10/17/16 10:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					09/23/16 18:24	10/17/16 10:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.175	U	0.218	0.218	1.00	0.361	pCi/L	09/23/16 21:25	10/10/16 14:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					09/23/16 21:25	10/10/16 14:39	1
Y Carrier	93.1		40 - 110					09/23/16 21:25	10/10/16 14:39	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	0.201	U	0.222	0.222	5.00	0.361	pCi/L		10/18/16 13:02	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 09/13/16 10:39
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274767	10/17/16 10:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273803	10/10/16 14:36	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Client Sample ID: MW-2
Date Collected: 09/13/16 13:35
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274767	10/17/16 10:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273803	10/10/16 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Client Sample ID: MW-3
Date Collected: 09/12/16 15:44
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274767	10/17/16 10:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273803	10/10/16 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Client Sample ID: MW-4
Date Collected: 09/13/16 08:37
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274767	10/17/16 10:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273803	10/10/16 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 09/13/16 09:28
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274767	10/17/16 10:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273803	10/10/16 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Client Sample ID: MW-6
Date Collected: 09/12/16 16:40
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274767	10/17/16 10:20	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273803	10/10/16 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Client Sample ID: MW-7
Date Collected: 09/12/16 13:23
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274722	10/17/16 10:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273803	10/10/16 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Client Sample ID: MW-8
Date Collected: 09/13/16 16:36
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274722	10/17/16 10:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273803	10/10/16 14:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 09/13/16 15:09
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274722	10/17/16 10:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273789	10/10/16 14:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Client Sample ID: MW-10
Date Collected: 09/13/16 11:48
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274722	10/17/16 10:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273789	10/10/16 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Client Sample ID: FD-01
Date Collected: 09/13/16 08:28
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274722	10/17/16 10:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273789	10/10/16 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Client Sample ID: EB-01
Date Collected: 09/13/16 11:01
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274722	10/17/16 10:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273789	10/10/16 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 09/13/16 11:09
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			271448	09/23/16 18:24	MCJ	TAL SL
Total/NA	Analysis	9315		1	274722	10/17/16 10:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			271450	09/23/16 21:25	MCJ	TAL SL
Total/NA	Analysis	9320		1	273789	10/10/16 14:39	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	274986	10/18/16 13:02	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Rad

Prep Batch: 271448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total/NA	Water	PrecSep-21	
400-127142-2	MW-2	Total/NA	Water	PrecSep-21	
400-127142-3	MW-3	Total/NA	Water	PrecSep-21	
400-127142-4	MW-4	Total/NA	Water	PrecSep-21	
400-127142-5	MW-5	Total/NA	Water	PrecSep-21	
400-127142-6	MW-6	Total/NA	Water	PrecSep-21	
400-127142-7	MW-7	Total/NA	Water	PrecSep-21	
400-127142-8	MW-8	Total/NA	Water	PrecSep-21	
400-127142-9	MW-9	Total/NA	Water	PrecSep-21	
400-127142-10	MW-10	Total/NA	Water	PrecSep-21	
400-127142-11	FD-01	Total/NA	Water	PrecSep-21	
400-127142-12	EB-01	Total/NA	Water	PrecSep-21	
400-127142-13	FB-01	Total/NA	Water	PrecSep-21	
MB 160-271448/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-271448/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-271448/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 271450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total/NA	Water	PrecSep_0	
400-127142-2	MW-2	Total/NA	Water	PrecSep_0	
400-127142-3	MW-3	Total/NA	Water	PrecSep_0	
400-127142-4	MW-4	Total/NA	Water	PrecSep_0	
400-127142-5	MW-5	Total/NA	Water	PrecSep_0	
400-127142-6	MW-6	Total/NA	Water	PrecSep_0	
400-127142-7	MW-7	Total/NA	Water	PrecSep_0	
400-127142-8	MW-8	Total/NA	Water	PrecSep_0	
400-127142-9	MW-9	Total/NA	Water	PrecSep_0	
400-127142-10	MW-10	Total/NA	Water	PrecSep_0	
400-127142-11	FD-01	Total/NA	Water	PrecSep_0	
400-127142-12	EB-01	Total/NA	Water	PrecSep_0	
400-127142-13	FB-01	Total/NA	Water	PrecSep_0	
MB 160-271450/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-271450/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-271450/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-271448/1-A
Matrix: Water
Analysis Batch: 274767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271448

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05651	U	0.0535	0.0538	1.00	0.0838	pCi/L	09/23/16 18:24	10/17/16 10:20	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					09/23/16 18:24	10/17/16 10:20	1

Lab Sample ID: LCS 160-271448/2-A
Matrix: Water
Analysis Batch: 274767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271448

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	13.25		1.29	1.00	0.0750	pCi/L	119	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	84.9		40 - 110						

Lab Sample ID: LCSD 160-271448/3-A
Matrix: Water
Analysis Batch: 274767

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 271448

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.1	12.44		1.22	1.00	0.0816	pCi/L	112	68 - 137	0.32	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	87.7		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-271450/1-A
Matrix: Water
Analysis Batch: 273803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 271450

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2157	U	0.269	0.270	1.00	0.446	pCi/L	09/23/16 21:25	10/10/16 14:36	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					09/23/16 21:25	10/10/16 14:36	1
Y Carrier	86.7		40 - 110					09/23/16 21:25	10/10/16 14:36	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
 SDG: Gypsum

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-271450/2-A
Matrix: Water
Analysis Batch: 273803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 271450

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.4	16.27		1.76	1.00	0.450	pCi/L	113	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	84.9		40 - 110
Y Carrier	87.9		40 - 110

Lab Sample ID: LCSD 160-271450/3-A
Matrix: Water
Analysis Batch: 273803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 271450

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.4	16.66		1.79	1.00	0.402	pCi/L	115	56 - 140	0.11	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	87.7		40 - 110
Y Carrier	87.9		40 - 110

Chain of Custody Record

Client Information		Sample: <i>Nice Agard/Colton Evans</i>		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-55446-23825.1	
Client Contact: Mr. Cale Sellers		Phone: 850-336-0192		E-Mail: cheyenne.whitmire@testamericainc.com				Page: 1 of 2	
Company: Southern Company								Job #:	
Address: PO BOX 2641 GSC8		Due Date Requested:		Analysis Requested					
City: Birmingham		TAT Requested (days):							
State, Zip: AL, 35291		PO #:							
Phone: 205-992-7762(Tel)		Purchase Order not required							
Email: CBSELLER@SOUTHERNCO.COM		WO #:							
Project Name: CCR -Plant Daniel		Project #:							
Site: Gypsum		ISSOW #:							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, AS=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Field Sampling Parameters		Total Number of Containers	Special Instructions/Notes
					D	N	D	N	D	N		
MW-1	9-13-16	1039	G	Water	X	X	X	X	X	X	3	
MW-2	9-13-16	1335	G	Water	X	X	X	X	X	X	3	
MW-3	9-12-16	1544	G	Water	X	X	X	X	X	X	3	
MW-4	9-13-16	0837	G	Water	X	X	X	X	X	X	3	
MW-5	9-13-16	0928	G	Water	X	X	X	X	X	X	3	
MW-6	9-12-16	1640	G	Water	X	X	X	X	X	X	3	
MW-7	9-12-16	1323	G	Water	X	X	X	X	X	X	3	
MW-8	9-13-16	1636	G	Water	X	X	X	X	X	X	3	400-127142 COC
MW-9	9-13-16	1509	G	Water	X	X	X	X	X	X	3	
MW-10	9-13-16	1148	G	Water	X	X	X	X	X	X	3	
DUP-01	9-13-16	0828	G	Water	X	X	X	X	X	X	3	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	9/14/16	0820	Company: RCH
Relinquished by:	Date/Time:		Company:
Relinquished by:	Date/Time:		Company:

Custody Seal No.: Δ Yes Δ No
 Custody Seal Intact: Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks: 1.0°C, 2.0°C, 3.0°C IR6
 Date/Time: 09/14/16 0810
 Company: TH



Chain of Custody Record

Client Information Supplier: <i>Rex Henderson / Colton Evans</i> Lab PM: Whitmire, Cheyenne R Phone: <i>850-336-0192</i> E-Mail: cheyenne.whitmire@testamericainc.com		Carrier Tracking No(s): COC No: 400-55446-23825.1 Page: <i>2 of 2</i> Job #:	
Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) Email: CBSSELLER@SOUTHERNCO.COM		Analysis Requested Total Number of Containers: _____ Field Sampling Parameters: _____ Preservation: M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP, U - Dodecahydrate, V - Acetone, W - pH 4-5, Z - other (specify)	
Due Date Requested: _____ TAT Requested (days): _____ PO #: _____ Purchase Order not required Project #: 40006621 SOW#: _____		9316_Ra226, 9320_Ra228, Ra228Ra228_GFPc S14500 Cl-E-Chloride, S14500 SO4 E-Sulfate, 2540C- 6020 - Sb,As,Ba,Bi,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl, T470A - Mercury Total Dissolved Solids, 4500 F-C-Fluoride Perform MS/MSD (Yes or No)	
Sample Identification Sample Date: 9-13-16 Sample Time: 1101 Matrix: Water Sample Type (C=Comp, G=grab): G Preservation Code: _____ Field Filtered Sample (Yes or No)		Special Instructions/Notes _____ _____ _____	
EB-01 FB-01 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10		Total Number of Containers: 3 Field Sampling Parameters: X X X Preservation Code: X X X Matrix: Water Sample Type: G Sample Time: 1109 Matrix: Water	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by: <i>W. J. Carr</i> Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date: 9/14/16 0820 Date: _____ Date: _____ Date: _____	
Relinquished by: _____ Relinquished by: _____ Relinquished by: _____		Date: 9/14/16 0820 Date: _____ Date: _____	
Custody Seal No.: _____ Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 1.0°C 2.0°C, 3.0°C IP6	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-127142-2

SDG Number: Gypsum

Login Number: 127142

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0°C, 2.0°C, 3.0°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-17
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	07-31-16 *
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-16
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-16 *
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-2
SDG: Gypsum

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
USDA	Federal		P330-14-0016	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17

* Certification renewal pending - certification considered valid.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-127142-3

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

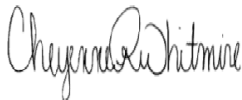
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

1/27/2017 4:34:47 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-3
SDG: Gypsum

Client Sample ID: MW-1

Lab Sample ID: 400-127142-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0082	J	0.020	0.0065	mg/L	5		6020	Total Recoverable

Client Sample ID: MW-2

Lab Sample ID: 400-127142-2

No Detections.

Client Sample ID: MW-3

Lab Sample ID: 400-127142-3

No Detections.

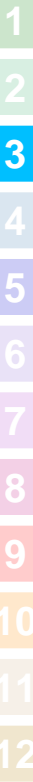
Client Sample ID: MW-4

Lab Sample ID: 400-127142-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola



Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-3
SDG: Gypsum

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN

Protocol References:

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-3
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-127142-1	MW-1	Water	09/13/16 10:39	09/14/16 08:20
400-127142-2	MW-2	Water	09/13/16 13:35	09/14/16 08:20
400-127142-3	MW-3	Water	09/12/16 15:44	09/14/16 08:20
400-127142-4	MW-4	Water	09/13/16 08:37	09/14/16 08:20

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-3
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 09/13/16 10:39
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0082	J	0.020	0.0065	mg/L	-	09/26/16 12:03	09/27/16 16:27	5

Client Sample ID: MW-2
Date Collected: 09/13/16 13:35
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0065		0.020	0.0065	mg/L	-	09/26/16 12:03	09/27/16 16:32	5

Client Sample ID: MW-3
Date Collected: 09/12/16 15:44
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0065		0.020	0.0065	mg/L	-	09/26/16 12:03	09/27/16 16:36	5

Client Sample ID: MW-4
Date Collected: 09/13/16 08:37
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0065		0.020	0.0065	mg/L	-	09/26/16 12:03	09/27/16 16:41	5

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-3
SDG: Gypsum

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-3
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 09/13/16 10:39
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			340134	09/26/16 12:03	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	340141	09/27/16 16:27	RJB	TAL PEN

Client Sample ID: MW-2
Date Collected: 09/13/16 13:35
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			340134	09/26/16 12:03	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	340141	09/27/16 16:32	RJB	TAL PEN

Client Sample ID: MW-3
Date Collected: 09/12/16 15:44
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			340134	09/26/16 12:03	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	340141	09/27/16 16:36	RJB	TAL PEN

Client Sample ID: MW-4
Date Collected: 09/13/16 08:37
Date Received: 09/14/16 08:20

Lab Sample ID: 400-127142-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			340134	09/26/16 12:03	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	340141	09/27/16 16:41	RJB	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-3
SDG: Gypsum

Metals

Prep Batch: 340134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total Recoverable	Water	3005A	
400-127142-2	MW-2	Total Recoverable	Water	3005A	
400-127142-3	MW-3	Total Recoverable	Water	3005A	
400-127142-4	MW-4	Total Recoverable	Water	3005A	
MB 400-340134/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-340134/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 340141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-127142-1	MW-1	Total Recoverable	Water	6020	340134
400-127142-2	MW-2	Total Recoverable	Water	6020	340134
400-127142-3	MW-3	Total Recoverable	Water	6020	340134
400-127142-4	MW-4	Total Recoverable	Water	6020	340134
MB 400-340134/1-A ^5	Method Blank	Total Recoverable	Water	6020	340134
LCS 400-340134/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	340134

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-3
 SDG: Gypsum

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-340134/1-A ^5
 Matrix: Water
 Analysis Batch: 340141

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 340134

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0065		0.020	0.0065	mg/L		09/26/16 12:03	09/27/16 14:26	5

Lab Sample ID: LCS 400-340134/2-A ^1
 Matrix: Water
 Analysis Batch: 340141

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 340134

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Zinc	0.0500	0.0515		mg/L		103	80 - 120

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-127142-3

SDG Number: Gypsum

Login Number: 127142

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0°C, 2.0°C, 3.0°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-127142-3
 SDG: Gypsum

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-16 *
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-130361-1

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

1/3/2017 2:10:22 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Job ID: 400-130361-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-130361-1

General Chemistry

Method(s) SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 334238 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method(s) SM 4500 Cl- E: The method blank for analytical batch 334236 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-1

Lab Sample ID: 400-130361-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.17		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	4.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0035		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	80		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.9	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	5.9		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.66				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-130361-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.040		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.78		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00071	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	36		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.9	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.79				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-130361-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.094		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.81		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0016	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00041	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	10	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	4.34				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-130361-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.054		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.5		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0016	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	60		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.5	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.71				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-5

Lab Sample ID: 400-130361-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.067		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00097	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	56		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	9.5	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.65				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-130361-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.070		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.6		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0026		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	40		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.8	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	3.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.57				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-130361-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00039	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0022	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	52		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	15	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.36				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-130361-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.10		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.6		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0014	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	40		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.6	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.49				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-130361-9

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-9 (Continued)

Lab Sample ID: 400-130361-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.041		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.85		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0011	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	52		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.9	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-130361-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.026		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.69		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00065	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	38		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.3	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.86				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-130361-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.094		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.81		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0016	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	22		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	10	B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 400-130361-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.00038	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	26		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	1.4	J B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 400-130361-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	14		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	1.4	J B	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
Field Sampling	Field Sampling	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-130361-1	MW-1	Water	11/17/16 07:32	11/18/16 14:00
400-130361-2	MW-2	Water	11/17/16 09:53	11/18/16 14:00
400-130361-3	MW-3	Water	11/16/16 11:56	11/18/16 14:00
400-130361-4	MW-4	Water	11/16/16 14:24	11/18/16 14:00
400-130361-5	MW-5	Water	11/16/16 15:16	11/18/16 14:00
400-130361-6	MW-6	Water	11/16/16 13:01	11/18/16 14:00
400-130361-7	MW-7	Water	11/16/16 11:03	11/18/16 14:00
400-130361-8	MW-8	Water	11/17/16 13:18	11/18/16 14:00
400-130361-9	MW-9	Water	11/17/16 11:42	11/18/16 14:00
400-130361-10	MW-10	Water	11/17/16 08:39	11/18/16 14:00
400-130361-11	DUP-01	Water	11/16/16 10:56	11/18/16 14:00
400-130361-12	EB-01	Water	11/17/16 13:30	11/18/16 14:00
400-130361-13	FB-01	Water	11/17/16 09:45	11/18/16 14:00

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 11/17/16 07:32
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 13:11	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 13:11	5
Barium	0.17		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 13:11	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 13:11	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 13:11	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 13:11	5
Calcium	4.8		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 13:11	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 13:11	5
Cobalt	0.0035		0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 13:11	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 13:11	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 13:11	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 13:11	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 13:11	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 13:11	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	80		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	7.9	B	2.0	0.60	mg/L			12/08/16 09:46	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 11:34	1
Sulfate	5.9		5.0	1.4	mg/L			12/08/16 09:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.66				SU			11/17/16 06:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 11/17/16 09:53
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 13:36	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 13:36	5
Barium	0.040		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 13:36	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 13:36	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 13:36	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 13:36	5
Calcium	0.78		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 13:36	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 13:36	5
Cobalt	0.00071	J	0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 13:36	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 13:36	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 13:36	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 13:36	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 13:36	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 13:36	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	7.9	B	2.0	0.60	mg/L			12/08/16 09:46	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 11:37	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.79				SU			11/17/16 08:53	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 11/16/16 11:56
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:03	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:03	5
Barium	0.094		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:03	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:03	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:03	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:03	5
Calcium	0.81		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:03	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:03	5
Cobalt	0.0016	J	0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:03	5
Lead	0.00041	J	0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:03	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:03	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:03	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:03	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:03	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	10	B	2.0	0.60	mg/L			12/08/16 09:13	1
Fluoride	0.040	J	0.10	0.032	mg/L			12/08/16 11:45	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:20	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.34				SU			11/16/16 10:56	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 11/16/16 14:24
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:08	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:08	5
Barium	0.054		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:08	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:08	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:08	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:08	5
Calcium	1.5		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:08	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:08	5
Cobalt	0.0016	J	0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:08	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:08	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:08	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:08	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:08	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:08	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	7.5	B	2.0	0.60	mg/L			12/08/16 09:13	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 11:50	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:20	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.71				SU			11/16/16 13:24	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 11/16/16 15:16
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:12	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:12	5
Barium	0.067		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:12	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:12	5
Calcium	2.3		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:12	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:12	5
Cobalt	0.00097	J	0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:12	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:12	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:12	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:12	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	9.5	B	2.0	0.60	mg/L			12/08/16 09:13	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 11:53	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.65				SU			11/16/16 14:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 11/16/16 13:01
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:17	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:17	5
Barium	0.070		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:17	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:17	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:17	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:17	5
Calcium	1.6		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:17	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:17	5
Cobalt	0.0026		0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:17	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:17	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:17	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:17	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:17	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	6.8	B	2.0	0.60	mg/L			12/08/16 09:13	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 11:56	1
Sulfate	3.1	J	5.0	1.4	mg/L			12/08/16 09:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.57				SU			11/16/16 12:01	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 11/16/16 11:03
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:21	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:21	5
Barium	0.15		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:21	5
Beryllium	0.00039	J	0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:21	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:21	5
Calcium	1.8		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:21	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:21	5
Cobalt	0.0022	J	0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:21	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:21	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:21	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	15	B	2.0	0.60	mg/L			12/08/16 09:46	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 11:59	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.36				SU			11/16/16 10:03	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 11/17/16 13:18
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:26	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:26	5
Barium	0.10		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:26	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:26	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:26	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:26	5
Calcium	1.6		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:26	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:26	5
Cobalt	0.0014	J	0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:26	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:26	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:26	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:26	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:26	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	8.6	B	2.0	0.60	mg/L			12/08/16 09:46	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 12:01	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.49				SU			11/17/16 12:18	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 11/17/16 11:42
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:30	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:30	5
Barium	0.041		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:30	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:30	5
Calcium	0.85		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:30	5
Cobalt	0.0011	J	0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:30	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:30	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:30	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	52		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	7.9	B	2.0	0.60	mg/L			12/08/16 09:46	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 12:04	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.82				SU			11/17/16 10:42	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 11/17/16 08:39
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:35	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:35	5
Barium	0.026		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:35	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:35	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:35	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:35	5
Calcium	0.69		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:35	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:35	5
Cobalt	0.00065 J		0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:35	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:35	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:35	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:35	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:35	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	38		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	6.3 B		2.0	0.60	mg/L			12/08/16 09:46	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 12:06	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:39	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.86				SU			11/17/16 07:39	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 11/16/16 10:56
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:39	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:39	5
Barium	0.094		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:39	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:39	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:39	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:39	5
Calcium	0.81		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:39	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:39	5
Cobalt	0.0016	J	0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:39	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:39	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:39	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:39	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:39	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:39	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	10	B	2.0	0.60	mg/L			12/08/16 09:46	1
Fluoride	0.040	J	0.10	0.032	mg/L			12/08/16 14:41	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:39	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 11/17/16 13:30
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 14:44	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 14:44	5
Barium	<0.00049		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 14:44	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:44	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 14:44	5
Cadmium	0.00038	J	0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 14:44	5
Calcium	<0.13		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 14:44	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 14:44	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 14:44	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 14:44	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 14:44	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 14:44	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 14:44	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 14:44	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	1.4	J B	2.0	0.60	mg/L			12/08/16 09:46	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 14:43	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:39	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 11/17/16 09:45
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-13
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 15:11	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 15:11	5
Barium	<0.00049		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 15:11	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 15:11	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 15:11	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 15:11	5
Calcium	<0.13		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 15:11	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 15:11	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 15:11	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 15:11	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 15:11	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 15:11	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 15:11	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 15:11	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:52	12/05/16 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14		5.0	3.4	mg/L			11/22/16 18:09	1
Chloride	1.4	J B	2.0	0.60	mg/L			12/08/16 09:46	1
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 14:45	1
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 09:52	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 11/17/16 07:32
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 13:11	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 12:57	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:46	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 11:34	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:39	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/17/16 06:32	BWS	TAL PEN

Client Sample ID: MW-2
Date Collected: 11/17/16 09:53
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 13:36	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 12:59	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:46	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 11:37	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:39	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/17/16 08:53	BWS	TAL PEN

Client Sample ID: MW-3
Date Collected: 11/16/16 11:56
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:03	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:00	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:13	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 11:45	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:20	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/16/16 10:56	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 11/16/16 14:24
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:08	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:13	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 11:50	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:20	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/16/16 13:24	BWS	TAL PEN

Client Sample ID: MW-5
Date Collected: 11/16/16 15:16
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:12	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:03	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:13	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 11:53	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:11	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/16/16 14:16	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 11/16/16 13:01
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:17	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:21	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:13	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 11:56	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:11	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/16/16 12:01	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 11/16/16 11:03
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:21	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:23	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:46	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 11:59	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:39	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/16/16 10:03	BWS	TAL PEN

Client Sample ID: MW-8
Date Collected: 11/17/16 13:18
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:26	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:24	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:46	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 12:01	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:39	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/17/16 12:18	BWS	TAL PEN

Client Sample ID: MW-9
Date Collected: 11/17/16 11:42
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:30	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:25	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:46	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 12:04	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:39	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/17/16 10:42	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: MW-10

Lab Sample ID: 400-130361-10

Date Collected: 11/17/16 08:39

Matrix: Water

Date Received: 11/18/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:35	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:26	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:46	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334238	12/08/16 12:06	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:39	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	337162	11/17/16 07:39	BWS	TAL PEN

Client Sample ID: DUP-01

Lab Sample ID: 400-130361-11

Date Collected: 11/16/16 10:56

Matrix: Water

Date Received: 11/18/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:39	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:27	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:46	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334299	12/08/16 14:41	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:39	SEH	TAL PEN

Client Sample ID: EB-01

Lab Sample ID: 400-130361-12

Date Collected: 11/17/16 13:30

Matrix: Water

Date Received: 11/18/16 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 14:44	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:46	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334299	12/08/16 14:43	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:39	SEH	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 11/17/16 09:45
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	332368	11/23/16 15:11	AJR	TAL PEN
Total/NA	Prep	7470A			332813	11/28/16 12:52	JAP	TAL PEN
Total/NA	Analysis	7470A		1	333750	12/05/16 13:30	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	332188	11/22/16 18:09	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	334236	12/08/16 09:46	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	334299	12/08/16 14:45	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	334256	12/08/16 09:52	SEH	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Metals

Prep Batch: 332122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total Recoverable	Water	3005A	
400-130361-2	MW-2	Total Recoverable	Water	3005A	
400-130361-3	MW-3	Total Recoverable	Water	3005A	
400-130361-4	MW-4	Total Recoverable	Water	3005A	
400-130361-5	MW-5	Total Recoverable	Water	3005A	
400-130361-6	MW-6	Total Recoverable	Water	3005A	
400-130361-7	MW-7	Total Recoverable	Water	3005A	
400-130361-8	MW-8	Total Recoverable	Water	3005A	
400-130361-9	MW-9	Total Recoverable	Water	3005A	
400-130361-10	MW-10	Total Recoverable	Water	3005A	
400-130361-11	DUP-01	Total Recoverable	Water	3005A	
400-130361-12	EB-01	Total Recoverable	Water	3005A	
400-130361-13	FB-01	Total Recoverable	Water	3005A	
MB 400-332122/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-332122/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-130361-1 MS	MW-1	Total Recoverable	Water	3005A	
400-130361-1 MSD	MW-1	Total Recoverable	Water	3005A	

Analysis Batch: 332368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total Recoverable	Water	6020	332122
400-130361-2	MW-2	Total Recoverable	Water	6020	332122
400-130361-3	MW-3	Total Recoverable	Water	6020	332122
400-130361-4	MW-4	Total Recoverable	Water	6020	332122
400-130361-5	MW-5	Total Recoverable	Water	6020	332122
400-130361-6	MW-6	Total Recoverable	Water	6020	332122
400-130361-7	MW-7	Total Recoverable	Water	6020	332122
400-130361-8	MW-8	Total Recoverable	Water	6020	332122
400-130361-9	MW-9	Total Recoverable	Water	6020	332122
400-130361-10	MW-10	Total Recoverable	Water	6020	332122
400-130361-11	DUP-01	Total Recoverable	Water	6020	332122
400-130361-12	EB-01	Total Recoverable	Water	6020	332122
400-130361-13	FB-01	Total Recoverable	Water	6020	332122
MB 400-332122/1-A ^5	Method Blank	Total Recoverable	Water	6020	332122
LCS 400-332122/2-A	Lab Control Sample	Total Recoverable	Water	6020	332122
400-130361-1 MS	MW-1	Total Recoverable	Water	6020	332122
400-130361-1 MSD	MW-1	Total Recoverable	Water	6020	332122

Prep Batch: 332813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total/NA	Water	7470A	
400-130361-2	MW-2	Total/NA	Water	7470A	
400-130361-3	MW-3	Total/NA	Water	7470A	
400-130361-4	MW-4	Total/NA	Water	7470A	
400-130361-5	MW-5	Total/NA	Water	7470A	
400-130361-6	MW-6	Total/NA	Water	7470A	
400-130361-7	MW-7	Total/NA	Water	7470A	
400-130361-8	MW-8	Total/NA	Water	7470A	
400-130361-9	MW-9	Total/NA	Water	7470A	
400-130361-10	MW-10	Total/NA	Water	7470A	
400-130361-11	DUP-01	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Metals (Continued)

Prep Batch: 332813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-12	EB-01	Total/NA	Water	7470A	
400-130361-13	FB-01	Total/NA	Water	7470A	
MB 400-332813/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-332813/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-130361-5 MS	MW-5	Total/NA	Water	7470A	
400-130361-5 MSD	MW-5	Total/NA	Water	7470A	

Analysis Batch: 333750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total/NA	Water	7470A	332813
400-130361-2	MW-2	Total/NA	Water	7470A	332813
400-130361-3	MW-3	Total/NA	Water	7470A	332813
400-130361-4	MW-4	Total/NA	Water	7470A	332813
400-130361-5	MW-5	Total/NA	Water	7470A	332813
400-130361-6	MW-6	Total/NA	Water	7470A	332813
400-130361-7	MW-7	Total/NA	Water	7470A	332813
400-130361-8	MW-8	Total/NA	Water	7470A	332813
400-130361-9	MW-9	Total/NA	Water	7470A	332813
400-130361-10	MW-10	Total/NA	Water	7470A	332813
400-130361-11	DUP-01	Total/NA	Water	7470A	332813
400-130361-12	EB-01	Total/NA	Water	7470A	332813
400-130361-13	FB-01	Total/NA	Water	7470A	332813
MB 400-332813/14-A	Method Blank	Total/NA	Water	7470A	332813
LCS 400-332813/15-A	Lab Control Sample	Total/NA	Water	7470A	332813
400-130361-5 MS	MW-5	Total/NA	Water	7470A	332813
400-130361-5 MSD	MW-5	Total/NA	Water	7470A	332813

General Chemistry

Analysis Batch: 332188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total/NA	Water	SM 2540C	
400-130361-2	MW-2	Total/NA	Water	SM 2540C	
400-130361-3	MW-3	Total/NA	Water	SM 2540C	
400-130361-4	MW-4	Total/NA	Water	SM 2540C	
400-130361-5	MW-5	Total/NA	Water	SM 2540C	
400-130361-6	MW-6	Total/NA	Water	SM 2540C	
400-130361-7	MW-7	Total/NA	Water	SM 2540C	
400-130361-8	MW-8	Total/NA	Water	SM 2540C	
400-130361-9	MW-9	Total/NA	Water	SM 2540C	
400-130361-10	MW-10	Total/NA	Water	SM 2540C	
400-130361-11	DUP-01	Total/NA	Water	SM 2540C	
400-130361-12	EB-01	Total/NA	Water	SM 2540C	
400-130361-13	FB-01	Total/NA	Water	SM 2540C	
MB 400-332188/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-332188/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-129669-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
400-129669-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 334236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total/NA	Water	SM 4500 Cl- E	
400-130361-2	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-130361-3	MW-3	Total/NA	Water	SM 4500 Cl- E	
400-130361-4	MW-4	Total/NA	Water	SM 4500 Cl- E	
400-130361-5	MW-5	Total/NA	Water	SM 4500 Cl- E	
400-130361-6	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-130361-7	MW-7	Total/NA	Water	SM 4500 Cl- E	
400-130361-8	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-130361-9	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-130361-10	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-130361-11	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-130361-12	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-130361-13	FB-01	Total/NA	Water	SM 4500 Cl- E	
MB 400-334236/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-334236/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-334236/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-130361-1 MS	MW-1	Total/NA	Water	SM 4500 Cl- E	
400-130361-1 MSD	MW-1	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 334238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total/NA	Water	SM 4500 F C	
400-130361-2	MW-2	Total/NA	Water	SM 4500 F C	
400-130361-3	MW-3	Total/NA	Water	SM 4500 F C	
400-130361-4	MW-4	Total/NA	Water	SM 4500 F C	
400-130361-5	MW-5	Total/NA	Water	SM 4500 F C	
400-130361-6	MW-6	Total/NA	Water	SM 4500 F C	
400-130361-7	MW-7	Total/NA	Water	SM 4500 F C	
400-130361-8	MW-8	Total/NA	Water	SM 4500 F C	
400-130361-9	MW-9	Total/NA	Water	SM 4500 F C	
400-130361-10	MW-10	Total/NA	Water	SM 4500 F C	
MB 400-334238/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-334238/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-130269-E-6 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-130269-E-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-130361-3 DU	MW-3	Total/NA	Water	SM 4500 F C	

Analysis Batch: 334256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-130361-2	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-130361-3	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-130361-4	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-130361-5	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-130361-6	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-130361-7	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-130361-8	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-130361-9	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-130361-10	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-130361-11	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-130361-12	EB-01	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 334256 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-13	FB-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-334256/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-334256/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-334256/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-130361-1 MS	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-130361-1 MSD	MW-1	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 334299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-11	DUP-01	Total/NA	Water	SM 4500 F C	
400-130361-12	EB-01	Total/NA	Water	SM 4500 F C	
400-130361-13	FB-01	Total/NA	Water	SM 4500 F C	
MB 400-334299/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-334299/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-130406-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-130406-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-130406-A-6 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 337162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total/NA	Water	Field Sampling	
400-130361-2	MW-2	Total/NA	Water	Field Sampling	
400-130361-3	MW-3	Total/NA	Water	Field Sampling	
400-130361-4	MW-4	Total/NA	Water	Field Sampling	
400-130361-5	MW-5	Total/NA	Water	Field Sampling	
400-130361-6	MW-6	Total/NA	Water	Field Sampling	
400-130361-7	MW-7	Total/NA	Water	Field Sampling	
400-130361-8	MW-8	Total/NA	Water	Field Sampling	
400-130361-9	MW-9	Total/NA	Water	Field Sampling	
400-130361-10	MW-10	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-332122/1-A ^5
Matrix: Water
Analysis Batch: 332368

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 332122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		11/22/16 13:00	11/23/16 11:37	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		11/22/16 13:00	11/23/16 11:37	5
Barium	<0.00049		0.0025	0.00049	mg/L		11/22/16 13:00	11/23/16 11:37	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 11:37	5
Boron	<0.021		0.050	0.021	mg/L		11/22/16 13:00	11/23/16 11:37	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		11/22/16 13:00	11/23/16 11:37	5
Calcium	<0.13		0.25	0.13	mg/L		11/22/16 13:00	11/23/16 11:37	5
Chromium	<0.0011		0.0025	0.0011	mg/L		11/22/16 13:00	11/23/16 11:37	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		11/22/16 13:00	11/23/16 11:37	5
Lead	<0.00035		0.0013	0.00035	mg/L		11/22/16 13:00	11/23/16 11:37	5
Lithium	<0.0032		0.0050	0.0032	mg/L		11/22/16 13:00	11/23/16 11:37	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		11/22/16 13:00	11/23/16 11:37	5
Selenium	<0.00024		0.0013	0.00024	mg/L		11/22/16 13:00	11/23/16 11:37	5
Thallium	<0.000085		0.00050	0.000085	mg/L		11/22/16 13:00	11/23/16 11:37	5

Lab Sample ID: LCS 400-332122/2-A
Matrix: Water
Analysis Batch: 332368

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 332122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0517		mg/L		103	80 - 120
Arsenic	0.0500	0.0493		mg/L		99	80 - 120
Barium	0.0500	0.0490		mg/L		98	80 - 120
Beryllium	0.0500	0.0452		mg/L		90	80 - 120
Boron	0.100	0.0974		mg/L		97	80 - 120
Cadmium	0.0500	0.0496		mg/L		99	80 - 120
Calcium	5.00	4.77		mg/L		95	80 - 120
Chromium	0.0500	0.0486		mg/L		97	80 - 120
Cobalt	0.0500	0.0490		mg/L		98	80 - 120
Lead	0.0500	0.0490		mg/L		98	80 - 120
Lithium	0.0500	0.0499		mg/L		100	80 - 120
Molybdenum	0.0500	0.0498		mg/L		100	80 - 120
Selenium	0.0500	0.0488		mg/L		98	80 - 120
Thallium	0.0100	0.00994		mg/L		99	80 - 120

Lab Sample ID: 400-130361-1 MS
Matrix: Water
Analysis Batch: 332368

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 332122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010		0.0500	0.0525		mg/L		105	75 - 125
Arsenic	<0.00046		0.0500	0.0507		mg/L		101	75 - 125
Barium	0.17		0.0500	0.225		mg/L		102	75 - 125
Beryllium	<0.00034		0.0500	0.0461		mg/L		92	75 - 125
Boron	<0.021		0.100	0.103		mg/L		103	75 - 125
Cadmium	<0.00034		0.0500	0.0512		mg/L		102	75 - 125
Calcium	4.8		5.00	9.62		mg/L		97	75 - 125
Chromium	<0.0011		0.0500	0.0493		mg/L		99	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-130361-1 MS
Matrix: Water
Analysis Batch: 332368

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 332122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0035		0.0500	0.0533		mg/L		100	75 - 125
Lead	<0.00035		0.0500	0.0498		mg/L		100	75 - 125
Lithium	<0.0032		0.0500	0.0492		mg/L		98	75 - 125
Molybdenum	<0.00085		0.0500	0.0503		mg/L		101	75 - 125
Selenium	<0.00024		0.0500	0.0483		mg/L		97	75 - 125
Thallium	<0.000085		0.0100	0.0101		mg/L		101	75 - 125

Lab Sample ID: 400-130361-1 MSD
Matrix: Water
Analysis Batch: 332368

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 332122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0010		0.0500	0.0522		mg/L		104	75 - 125	1	20
Arsenic	<0.00046		0.0500	0.0500		mg/L		100	75 - 125	1	20
Barium	0.17		0.0500	0.224		mg/L		100	75 - 125	0	20
Beryllium	<0.00034		0.0500	0.0477		mg/L		95	75 - 125	4	20
Boron	<0.021		0.100	0.105		mg/L		105	75 - 125	1	20
Cadmium	<0.00034		0.0500	0.0510		mg/L		102	75 - 125	0	20
Calcium	4.8		5.00	9.51		mg/L		95	75 - 125	1	20
Chromium	<0.0011		0.0500	0.0499		mg/L		100	75 - 125	1	20
Cobalt	0.0035		0.0500	0.0532		mg/L		99	75 - 125	0	20
Lead	<0.00035		0.0500	0.0497		mg/L		99	75 - 125	0	20
Lithium	<0.0032		0.0500	0.0533		mg/L		107	75 - 125	8	20
Molybdenum	<0.00085		0.0500	0.0503		mg/L		101	75 - 125	0	20
Selenium	<0.00024		0.0500	0.0496		mg/L		99	75 - 125	3	20
Thallium	<0.000085		0.0100	0.00983		mg/L		98	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-332813/14-A
Matrix: Water
Analysis Batch: 333750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 332813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		11/28/16 12:50	12/05/16 12:55	1

Lab Sample ID: LCS 400-332813/15-A
Matrix: Water
Analysis Batch: 333750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 332813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000945		mg/L		94	80 - 120

Lab Sample ID: 400-130361-5 MS
Matrix: Water
Analysis Batch: 333750

Client Sample ID: MW-5
Prep Type: Total/NA
Prep Batch: 332813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.000070		0.00201	0.00179		mg/L		89	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Lab Sample ID: 400-130361-5 MSD
Matrix: Water
Analysis Batch: 333750

Client Sample ID: MW-5
Prep Type: Total/NA
Prep Batch: 332813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.000070		0.00201	0.00181		mg/L		90	80 - 120	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-332188/1
Matrix: Water
Analysis Batch: 332188

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			11/22/16 18:09	1

Lab Sample ID: LCS 400-332188/2
Matrix: Water
Analysis Batch: 332188

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	268		mg/L		91	78 - 122

Lab Sample ID: 400-129669-A-1 DU
Matrix: Water
Analysis Batch: 332188

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	550000		550000		mg/L		0.4	5

Lab Sample ID: 400-129669-A-2 DU
Matrix: Water
Analysis Batch: 332188

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	480000		478000		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-334236/6
Matrix: Water
Analysis Batch: 334236

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.907	J	2.0	0.60	mg/L			12/08/16 08:43	1

Lab Sample ID: LCS 400-334236/7
Matrix: Water
Analysis Batch: 334236

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.5		mg/L		102	90 - 110

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: MRL 400-334236/3
Matrix: Water
Analysis Batch: 334236

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	2.76		mg/L		138	50 - 150

Lab Sample ID: 400-130361-1 MS
Matrix: Water
Analysis Batch: 334236

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.9	B	10.0	18.8		mg/L		108	73 - 120

Lab Sample ID: 400-130361-1 MSD
Matrix: Water
Analysis Batch: 334236

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.9	B	10.0	18.4		mg/L		105	73 - 120	2	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-334238/3
Matrix: Water
Analysis Batch: 334238

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 10:57	1

Lab Sample ID: LCS 400-334238/4
Matrix: Water
Analysis Batch: 334238

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.03		mg/L		101	90 - 110

Lab Sample ID: 400-130269-E-6 MS
Matrix: Water
Analysis Batch: 334238

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.16	F2	1.00	1.00		mg/L		84	75 - 125

Lab Sample ID: 400-130269-E-6 MSD
Matrix: Water
Analysis Batch: 334238

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.16	F2	1.00	1.05	F2	mg/L		89	75 - 125	5	4

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-130361-3 DU
Matrix: Water
Analysis Batch: 334238

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.040	J	0.0400	J	mg/L		0	4

Lab Sample ID: MB 400-334299/3
Matrix: Water
Analysis Batch: 334299

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			12/08/16 14:25	1

Lab Sample ID: LCS 400-334299/4
Matrix: Water
Analysis Batch: 334299

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.11		mg/L		103	90 - 110

Lab Sample ID: 400-130406-A-1 MS
Matrix: Water
Analysis Batch: 334299

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	0.960		mg/L		96	75 - 125

Lab Sample ID: 400-130406-A-1 MSD
Matrix: Water
Analysis Batch: 334299

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	0.960		mg/L		96	75 - 125	0	4

Lab Sample ID: 400-130406-A-6 DU
Matrix: Water
Analysis Batch: 334299

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	<0.032		<0.032		mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-334256/6
Matrix: Water
Analysis Batch: 334256

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			12/08/16 08:45	1

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
 SDG: Gypsum

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 400-334256/7
Matrix: Water
Analysis Batch: 334256

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.9		mg/L		99	90 - 110

Lab Sample ID: MRL 400-334256/3
Matrix: Water
Analysis Batch: 334256

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.26	J	mg/L		85	50 - 150

Lab Sample ID: 400-130361-1 MS
Matrix: Water
Analysis Batch: 334256

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.9		10.0	17.0		mg/L		111	77 - 128

Lab Sample ID: 400-130361-1 MSD
Matrix: Water
Analysis Batch: 334256

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	5.9		10.0	17.0		mg/L		111	77 - 128	0	5

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 Client Contact: <u>Mr. Cale Sellers</u> Phone: <u>850 380 3458</u> Company: <u>Southern Company</u>		Lab P/N: <u>Whitmore, Cheyenne R</u> E-Mail: <u>cheyenne.whitmore@testamericainc.com</u>		Carrier Tracking No(s): COC No: <u>400-55446-23825.1</u> Page: <u>1-2</u> Job #:	
Due Date Requested: TAT Requested (days): PO #: <u>Purchase Order not required</u> WO #:		Analysis Requested Field Sampling Parameters: 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sr,Tl,7470A - Mercury SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315, Ra226, 9320, Ra228, Ra226Ra228_GFPc Perform MS/MSD (Yes or No)			
Project #: <u>40006621</u> SSO/W#:		Preservation M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)			
Address: <u>PO BOX 2641 GSC8</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35291</u> Phone: <u>205-992-7762(Tel)</u> Email: <u>CBSELLER@SOUTHERNCO.COM</u> Project Name: <u>CCR -Plant Daniel</u> Site: <u>Gypsum</u>		Total Number of Containers Special Instructions/			
Sample Identification Sample Date Sample Time Sample Type (G=grab, C=comp) Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=air) Preservation Code		Field Filtered Sample (Yes or No) Field Instructions/			
MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 D09 -01		11/17/16 0732 G Water 11/17/16 0953 Water 11/16/16 1156 Water 11/16/16 1424 Water 11/16/16 1516 Water 11/16/16 1301 Water 11/16/16 1103 Water 11/17/16 1318 Water 11/17/16 1142 Water 11/17/16 0839 G Water 11/16/16 1056 G Water			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by:		Method of Shipment: Date/Time: <u>11/18/16 1400</u> Date/Time:			
Relinquished by: <u>[Signature]</u> Relinquished by:		Date/Time: <u>11/18/16 1400</u> Date/Time:			
Relinquished by:		Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <u>4.6°C, 2.1°C IRG</u>			



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

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Client Information
 Client Contact: Brett Sorles Lab P/N: Whitmore, Cheyenne R
 Mr. Cale Sellers Phone: 850 380 3458 E-Mail: cheyenne.whitmore@testamericainc.com
 Company: Southern Company

Analysis Requested
 Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required
 WO #:
 Project #: 40006621
 Project Name: CCR -Plant Dantiel
 Site: Gypsum
 Email: CBSSELLER@SOUTHERNCO.COM

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Sampling Parameters											Total Number of Containers	Special Instructions/											
							As	Ba	Be	Ca	Cd	Co	Cr	Pb	Li	Mo	Se			Tl	7470A									
FB-01 <u>FB-01</u>	<u>11/17/16</u>	<u>1330</u>	<u>G</u>	<u>Water</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>						
FB-01 <u>FB-01</u>	<u>11/17/16</u>	<u>0945</u>	<u>G</u>	<u>Water</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
FB-01				<u>Water</u>																										
FB-01				<u>Water</u>																										
FB-01				<u>Water</u>																										
FB-01				<u>Water</u>																										
FB-01				<u>Water</u>																										
FB-01				<u>Water</u>																										
FB-01				<u>Water</u>																										
FB-01				<u>Water</u>																										

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: [Signature] Date: 11/18/16 Time: 1400 Company: RWH

Relinquished by: [Signature] Date: 11/18/16 Time: 1400 Company: RWH

Relinquished by: [Signature] Date: 11/18/16 Time: 1400 Company: RWH

Relinquished by: [Signature] Date: 11/18/16 Time: 1400 Company: RWH

Custody Seals Intact: IR6 Cooler Temperature(s) °C and Other Remarks: 4.6°C, 2.1°C



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-130361-1

SDG Number: Gypsum

Login Number: 130361

List Number: 1

Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1°C, 4.6°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-1
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16 *
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16 *
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

* Certification renewal pending - certification considered valid.

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-130361-2

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

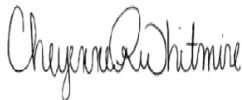
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

12/31/2016 3:15:59 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Job ID: 400-130361-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-130361-2

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-281468: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-1 (400-130361-1), MW-2 (400-130361-2), MW-3 (400-130361-3), MW-4 (400-130361-4), MW-5 (400-130361-5), MW-6 (400-130361-6), MW-7 (400-130361-7), MW-8 (400-130361-8), MW-9 (400-130361-9), MW-10 (400-130361-10), DUP-01 (400-130361-11), EB-01 (400-130361-12) and FB-01 (400-130361-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-281427: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-1 (400-130361-1), MW-2 (400-130361-2), MW-3 (400-130361-3), MW-4 (400-130361-4), MW-5 (400-130361-5), MW-6 (400-130361-6), MW-7 (400-130361-7), MW-8 (400-130361-8), MW-9 (400-130361-9), MW-10 (400-130361-10), DUP-01 (400-130361-11), EB-01 (400-130361-12) and FB-01 (400-130361-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.



Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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



Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-130361-1	MW-1	Water	11/17/16 07:32	11/18/16 14:00
400-130361-2	MW-2	Water	11/17/16 09:53	11/18/16 14:00
400-130361-3	MW-3	Water	11/16/16 11:56	11/18/16 14:00
400-130361-4	MW-4	Water	11/16/16 14:24	11/18/16 14:00
400-130361-5	MW-5	Water	11/16/16 15:16	11/18/16 14:00
400-130361-6	MW-6	Water	11/16/16 13:01	11/18/16 14:00
400-130361-7	MW-7	Water	11/16/16 11:03	11/18/16 14:00
400-130361-8	MW-8	Water	11/17/16 13:18	11/18/16 14:00
400-130361-9	MW-9	Water	11/17/16 11:42	11/18/16 14:00
400-130361-10	MW-10	Water	11/17/16 08:39	11/18/16 14:00
400-130361-11	DUP-01	Water	11/16/16 10:56	11/18/16 14:00
400-130361-12	EB-01	Water	11/17/16 13:30	11/18/16 14:00
400-130361-13	FB-01	Water	11/17/16 09:45	11/18/16 14:00

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
 SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 11/17/16 07:32
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-1
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	1.49		0.450	0.470	1.00	0.394	pCi/L	11/29/16 11:40	12/30/16 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					11/29/16 11:40	12/30/16 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.79		0.411	0.443	1.00	0.503	pCi/L	11/29/16 14:37	12/29/16 14:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					11/29/16 14:37	12/29/16 14:01	1
Y Carrier	87.1		40 - 110					11/29/16 14:37	12/29/16 14:01	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	3.28		0.610	0.646	5.00	0.503	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 11/17/16 09:53
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-2
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	0.433		0.250	0.253	1.00	0.323	pCi/L	11/29/16 11:40	12/30/16 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					11/29/16 11:40	12/30/16 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.415	U	0.273	0.276	1.00	0.423	pCi/L	11/29/16 14:37	12/29/16 14:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					11/29/16 14:37	12/29/16 14:01	1
Y Carrier	84.5		40 - 110					11/29/16 14:37	12/29/16 14:01	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	0.848		0.371	0.375	5.00	0.423	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 11/16/16 11:56
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-3
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	0.810		0.324	0.332	1.00	0.360	pCi/L	11/29/16 11:40	12/30/16 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					11/29/16 11:40	12/30/16 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.813		0.318	0.327	1.00	0.452	pCi/L	11/29/16 14:37	12/29/16 14:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					11/29/16 14:37	12/29/16 14:01	1
Y Carrier	89.7		40 - 110					11/29/16 14:37	12/29/16 14:01	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	1.62		0.454	0.466	5.00	0.452	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 11/16/16 14:24
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-4
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	0.644		0.295	0.301	1.00	0.344	pCi/L	11/29/16 11:40	12/30/16 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					11/29/16 11:40	12/30/16 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.807		0.288	0.298	1.00	0.395	pCi/L	11/29/16 14:37	12/29/16 14:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					11/29/16 14:37	12/29/16 14:01	1
Y Carrier	96.8		40 - 110					11/29/16 14:37	12/29/16 14:01	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		0.413	0.423	5.00	0.395	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 11/16/16 15:16
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-5
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	0.853		0.321	0.330	1.00	0.336	pCi/L	11/29/16 11:40	12/30/16 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					11/29/16 11:40	12/30/16 07:00	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.903		0.281	0.293	1.00	0.363	pCi/L	11/29/16 14:37	12/29/16 14:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					11/29/16 14:37	12/29/16 14:01	1
Y Carrier	93.1		40 - 110					11/29/16 14:37	12/29/16 14:01	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	1.76		0.427	0.442	5.00	0.363	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 11/16/16 13:01
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-6
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	0.509		0.262	0.266	1.00	0.320	pCi/L	11/29/16 11:40	12/30/16 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					11/29/16 11:40	12/30/16 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.763		0.277	0.286	1.00	0.379	pCi/L	11/29/16 14:37	12/29/16 14:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					11/29/16 14:37	12/29/16 14:01	1
Y Carrier	90.5		40 - 110					11/29/16 14:37	12/29/16 14:01	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	1.27		0.382	0.391	5.00	0.379	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 11/16/16 11:03
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-7
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	1.13		0.365	0.379	1.00	0.370	pCi/L	11/29/16 11:40	12/30/16 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					11/29/16 11:40	12/30/16 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.47		0.318	0.346	1.00	0.357	pCi/L	11/29/16 14:37	12/29/16 14:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.6		40 - 110					11/29/16 14:37	12/29/16 14:01	1
Y Carrier	92.0		40 - 110					11/29/16 14:37	12/29/16 14:01	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	2.60		0.484	0.513	5.00	0.370	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 11/17/16 13:18
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-8
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	0.882		0.321	0.330	1.00	0.339	pCi/L	11/29/16 11:40	12/30/16 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					11/29/16 11:40	12/30/16 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.11		0.295	0.312	1.00	0.360	pCi/L	11/29/16 14:37	12/29/16 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					11/29/16 14:37	12/29/16 14:02	1
Y Carrier	90.8		40 - 110					11/29/16 14:37	12/29/16 14:02	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	1.99		0.436	0.454	5.00	0.360	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
 SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 11/17/16 11:42
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-9
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	0.293	U	0.239	0.240	1.00	0.355	pCi/L	11/29/16 11:40	12/30/16 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					11/29/16 11:40	12/30/16 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.354	U	0.259	0.261	1.00	0.406	pCi/L	11/29/16 14:37	12/29/16 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					11/29/16 14:37	12/29/16 14:02	1
Y Carrier	92.0		40 - 110					11/29/16 14:37	12/29/16 14:02	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	0.646		0.352	0.355	5.00	0.406	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 11/17/16 08:39
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-10
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	0.162	U	0.184	0.185	1.00	0.297	pCi/L	11/29/16 11:40	12/30/16 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					11/29/16 11:40	12/30/16 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0370	U	0.204	0.204	1.00	0.362	pCi/L	11/29/16 14:37	12/29/16 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					11/29/16 14:37	12/29/16 14:02	1
Y Carrier	91.6		40 - 110					11/29/16 14:37	12/29/16 14:02	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	0.199	U	0.275	0.276	5.00	0.362	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 11/16/16 10:56
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-11
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	0.603		0.306	0.311	1.00	0.371	pCi/L	11/29/16 11:40	12/30/16 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.6		40 - 110					11/29/16 11:40	12/30/16 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.09		0.323	0.338	1.00	0.401	pCi/L	11/29/16 14:37	12/29/16 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.6		40 - 110					11/29/16 14:37	12/29/16 14:02	1
Y Carrier	93.1		40 - 110					11/29/16 14:37	12/29/16 14:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.69		0.445	0.459	5.00	0.401	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 11/17/16 13:30
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-12
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	0.0533	U	0.167	0.167	1.00	0.318	pCi/L	11/29/16 11:40	12/30/16 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					11/29/16 11:40	12/30/16 07:01	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.279	U	0.237	0.238	1.00	0.376	pCi/L	11/29/16 14:37	12/29/16 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					11/29/16 14:37	12/29/16 14:02	1
Y Carrier	92.0		40 - 110					11/29/16 14:37	12/29/16 14:02	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	0.333	U	0.290	0.291	5.00	0.376	pCi/L		12/30/16 11:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 11/17/16 09:45
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-13
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	-0.0217	U	0.177	0.177	1.00	0.365	pCi/L	11/29/16 11:40	12/30/16 07:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					11/29/16 11:40	12/30/16 07:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.166	U	0.220	0.220	1.00	0.422	pCi/L	11/29/16 14:37	12/29/16 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					11/29/16 14:37	12/29/16 14:02	1
Y Carrier	93.8		40 - 110					11/29/16 14:37	12/29/16 14:02	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	-0.188	U	0.282	0.282	5.00	0.422	pCi/L		12/30/16 11:40	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 11/17/16 07:32
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:00	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:01	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Client Sample ID: MW-2
Date Collected: 11/17/16 09:53
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:00	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:01	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Client Sample ID: MW-3
Date Collected: 11/16/16 11:56
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:00	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:01	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Client Sample ID: MW-4
Date Collected: 11/16/16 14:24
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:00	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:01	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 11/16/16 15:16
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:00	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:01	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Client Sample ID: MW-6
Date Collected: 11/16/16 13:01
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:01	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Client Sample ID: MW-7
Date Collected: 11/16/16 11:03
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:01	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Client Sample ID: MW-8
Date Collected: 11/17/16 13:18
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:02	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 11/17/16 11:42
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:02	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Client Sample ID: MW-10
Date Collected: 11/17/16 08:39
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:02	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Client Sample ID: DUP-01
Date Collected: 11/16/16 10:56
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:02	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Client Sample ID: EB-01
Date Collected: 11/17/16 13:30
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285871	12/30/16 07:01	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:02	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 11/17/16 09:45
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			281427	11/29/16 11:40	AS	TAL SL
Total/NA	Analysis	9315		1	285872	12/30/16 07:06	RTM	TAL SL
Total/NA	Prep	PrecSep_0			281468	11/29/16 14:37	AS	TAL SL
Total/NA	Analysis	9320		1	285756	12/29/16 14:02	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	285903	12/30/16 11:40	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Rad

Prep Batch: 281427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total/NA	Water	PrecSep-21	
400-130361-2	MW-2	Total/NA	Water	PrecSep-21	
400-130361-3	MW-3	Total/NA	Water	PrecSep-21	
400-130361-4	MW-4	Total/NA	Water	PrecSep-21	
400-130361-5	MW-5	Total/NA	Water	PrecSep-21	
400-130361-6	MW-6	Total/NA	Water	PrecSep-21	
400-130361-7	MW-7	Total/NA	Water	PrecSep-21	
400-130361-8	MW-8	Total/NA	Water	PrecSep-21	
400-130361-9	MW-9	Total/NA	Water	PrecSep-21	
400-130361-10	MW-10	Total/NA	Water	PrecSep-21	
400-130361-11	DUP-01	Total/NA	Water	PrecSep-21	
400-130361-12	EB-01	Total/NA	Water	PrecSep-21	
400-130361-13	FB-01	Total/NA	Water	PrecSep-21	
MB 160-281427/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-281427/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-281427/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 281468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total/NA	Water	PrecSep_0	
400-130361-2	MW-2	Total/NA	Water	PrecSep_0	
400-130361-3	MW-3	Total/NA	Water	PrecSep_0	
400-130361-4	MW-4	Total/NA	Water	PrecSep_0	
400-130361-5	MW-5	Total/NA	Water	PrecSep_0	
400-130361-6	MW-6	Total/NA	Water	PrecSep_0	
400-130361-7	MW-7	Total/NA	Water	PrecSep_0	
400-130361-8	MW-8	Total/NA	Water	PrecSep_0	
400-130361-9	MW-9	Total/NA	Water	PrecSep_0	
400-130361-10	MW-10	Total/NA	Water	PrecSep_0	
400-130361-11	DUP-01	Total/NA	Water	PrecSep_0	
400-130361-12	EB-01	Total/NA	Water	PrecSep_0	
400-130361-13	FB-01	Total/NA	Water	PrecSep_0	
MB 160-281468/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-281468/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-281468/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-281427/1-A
Matrix: Water
Analysis Batch: 285871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 281427

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.04693	U	0.157	0.157	1.00	0.356	pCi/L	11/29/16 11:40	12/30/16 06:59	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		40 - 110						
	73.8					11/29/16 11:40	12/30/16 06:59	1		

Lab Sample ID: LCS 160-281427/2-A
Matrix: Water
Analysis Batch: 285871

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281427

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.1	14.93		1.82	1.00	0.348	pCi/L	135	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		40 - 110					
	77.2								

Lab Sample ID: LCSD 160-281427/3-A
Matrix: Water
Analysis Batch: 285871

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 281427

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.1	15.01		1.83	1.00	0.365	pCi/L	135	68 - 137	0.02	1
Carrier	LCSD LCSD		Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier		40 - 110							
	74.9										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-281468/1-A
Matrix: Water
Analysis Batch: 285757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 281468

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5312		0.305	0.309	1.00	0.457	pCi/L	11/29/16 14:37	12/29/16 14:07	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		40 - 110						
	73.8					11/29/16 14:37	12/29/16 14:07	1		
Y Carrier	%Yield	Qualifier	40 - 110							
	88.2					11/29/16 14:37	12/29/16 14:07	1		

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-281468/2-A
Matrix: Water
Analysis Batch: 285756

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281468

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.1	15.03		1.65	1.00	0.449	pCi/L	107	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	77.2		40 - 110
Y Carrier	90.1		40 - 110

Lab Sample ID: LCSD 160-281468/3-A
Matrix: Water
Analysis Batch: 285756

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 281468

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.1	16.11		1.75	1.00	0.465	pCi/L	115	56 - 140	0.32	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	74.9		40 - 110
Y Carrier	91.2		40 - 110

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

Lab Sample ID: 400-130301-A-1 DU
Matrix: Water
Analysis Batch: 285903

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Combined Radium 226 + 228	0.0128	U	0.2215	U	0.329	5.00	0.462	pCi/L	0.33	

Chain of Custody Record

Client Information Client Contact: Mr. Cale Sellers Phone: 850 380 3458 Company: Southern Company		Lab P/N: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com		Carrier Tracking No(s): COC No: 400-55446-23825.1 Page: 1-2 Job #:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Analysis Requested			
Project #: 40006621 SSO/W#:		Preservation M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP U - Dodecahydrate V - Acetone W - MCAA X - ph 4-5 Z - other (specify)			
Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) Email: CBSELLER@SOUTHERNCO.COM		Total Number of Containers:			
Project Name: CCR -Plant Daniel Site: Gypsum		Special Instructions/Notes:			
Sample Identification Sample Date: 11/17/16 Sample Time: 0732 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/17/16 Sample Time: 0953 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/16/16 Sample Time: 1156 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/16/16 Sample Time: 1424 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/16/16 Sample Time: 1516 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/16/16 Sample Time: 1301 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/16/16 Sample Time: 1103 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/17/16 Sample Time: 1318 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/17/16 Sample Time: 1142 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/17/16 Sample Time: 0839 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Sample Date: 11/16/16 Sample Time: 1056 Sample Type (G=grab): G Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air): Water		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
DSP - 01		Field Sampling Parameters Mercury 6020 - Sp,As,Ba,Bi,Bb,Cd,Cr,Cu,Pb,LI,Mo,Sb,TL,7470A - SM4500 Cl, E - Chloride, SM4500, SO4 F, C - Fluoride 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GPC			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Empty Kit Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by:		Method of Shipment: Date/Time: 11/18/16 1400 Date/Time: 11/18/16 1400 Date/Time: 11/18/16 1400 Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 4.6°C, 2.1°C IRG			



Chain of Custody Record

Client Information Client Contact: <u>Mr. Cale Sellers</u> Company: <u>Southern Company</u> Address: <u>PO BOX 2641 GSC8</u> City: <u>Birmingham</u> State, Zip: <u>AL, 35291</u> Phone: <u>205-992-7762(Tel)</u> Email: <u>CBSSELLER@SOUTHERNCO.COM</u> Project Name: <u>CCR -Plant Dantiel</u> Site: <u>Gypsum</u>		Sampler: <u>Brett Sorles</u> Phone: <u>850 380 3458</u> Lab PNI: <u>Whitmore, Cheyenne R</u> E-Mail: <u>cheyenne.whitmore@testamericainc.com</u>		COC No: <u>400-55446-23825.1</u> Page: <u>2-2</u> Job #:	
Due Date Requested: TAT Requested (days): PO #: <u>Purchase Order not required</u> WO #: Project #: <u>40006621</u> SSOW#:		Analysis Requested		Camera Tracking No(s):	
Sample Identification <u>EB-01</u> <u>FB-01</u> <u>No sample</u>		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 9315_Ra228, 9320_Ra228, Ra228Ra228_GFP SM4500_Cl_E - Chloride, SM4500_S04_E - Sulfate, 2640C - 6020_Sb, As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, 7470A - Mercury Field Sampling Parameters		Preservation M - Hexane N - None O - ASNEO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Sample Date <u>11/17/16</u> <u>11/17/16</u> <u>11/17/16</u>		Sample Time <u>1330</u> <u>0945</u>		Total Number of Containers	
Sample Type (C=comp, G=grab) <u>G</u> <u>G</u> <u>G</u>		Matrix (Water, Soil, Sediment, Other) <u>Water</u> <u>Water</u> <u>Water</u>		Special Instructions/QC Requirements:	
Sample Date <u>11/18/16</u>		Sample Time <u>1400</u>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Requisitioned by: <u>[Signature]</u>		Requisitioned by: <u>[Signature]</u>		Date/Time: <u>11/18/16 1400</u>	
Requisitioned by:		Requisitioned by:		Date/Time: <u>11/18/16 1400</u>	
Requisitioned by:		Requisitioned by:		Date/Time: <u>11/18/16 1400</u>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <u>IR6</u>		Cooler Temperature(s) °C and Other Remarks: <u>4.6°C, 2.1°C</u>	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-130361-2

SDG Number: Gypsum

Login Number: 130361

List Number: 1

Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1°C, 4.6°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-16
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-17
Rhode Island	State Program	1	LAO00307	12-30-16
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18
Connecticut	State Program	1	PH-0241	03-31-17
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	003757	11-30-16 *
Iowa	State Program	7	373	12-01-16 *
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-16
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA160008	12-31-16 *
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542016-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17
North Dakota	State Program	8	R207	06-30-17

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-2
SDG: Gypsum

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-17 *
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-14-0016	01-09-17
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-130361-3

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

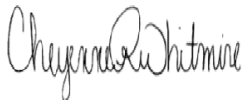
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

2/24/2017 1:04:00 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-3
SDG: Gypsum

Client Sample ID: MW-1

Lab Sample ID: 400-130361-1

No Detections.

Client Sample ID: MW-2

Lab Sample ID: 400-130361-2

No Detections.

Client Sample ID: MW-3

Lab Sample ID: 400-130361-3

No Detections.

Client Sample ID: MW-4

Lab Sample ID: 400-130361-4

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-3
SDG: Gypsum

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN

Protocol References:

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-3
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-130361-1	MW-1	Water	11/17/16 07:32	11/18/16 14:00
400-130361-2	MW-2	Water	11/17/16 09:53	11/18/16 14:00
400-130361-3	MW-3	Water	11/16/16 11:56	11/18/16 14:00
400-130361-4	MW-4	Water	11/16/16 14:24	11/18/16 14:00

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-3
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 11/17/16 07:32
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0065		0.020	0.0065	mg/L		11/22/16 13:00	11/23/16 13:11	5

Client Sample ID: MW-2
Date Collected: 11/17/16 09:53
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0065		0.020	0.0065	mg/L		11/22/16 13:00	11/23/16 13:36	5

Client Sample ID: MW-3
Date Collected: 11/16/16 11:56
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0065		0.020	0.0065	mg/L		11/22/16 13:00	11/23/16 14:03	5

Client Sample ID: MW-4
Date Collected: 11/16/16 14:24
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0065		0.020	0.0065	mg/L		11/22/16 13:00	11/23/16 14:08	5

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-3
SDG: Gypsum

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-3
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 11/17/16 07:32
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343543	11/23/16 13:11	RJB	TAL PEN

Client Sample ID: MW-2
Date Collected: 11/17/16 09:53
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343543	11/23/16 13:36	RJB	TAL PEN

Client Sample ID: MW-3
Date Collected: 11/16/16 11:56
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343543	11/23/16 14:03	RJB	TAL PEN

Client Sample ID: MW-4
Date Collected: 11/16/16 14:24
Date Received: 11/18/16 14:00

Lab Sample ID: 400-130361-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			332122	11/22/16 13:00	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	343543	11/23/16 14:08	RJB	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-3
SDG: Gypsum

Metals

Prep Batch: 332122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total Recoverable	Water	3005A	
400-130361-2	MW-2	Total Recoverable	Water	3005A	
400-130361-3	MW-3	Total Recoverable	Water	3005A	
400-130361-4	MW-4	Total Recoverable	Water	3005A	
MB 400-332122/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-332122/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-130361-1 MS	MW-1	Total Recoverable	Water	3005A	
400-130361-1 MSD	MW-1	Total Recoverable	Water	3005A	

Analysis Batch: 343543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-130361-1	MW-1	Total Recoverable	Water	6020	332122
400-130361-2	MW-2	Total Recoverable	Water	6020	332122
400-130361-3	MW-3	Total Recoverable	Water	6020	332122
400-130361-4	MW-4	Total Recoverable	Water	6020	332122
MB 400-332122/1-A ^5	Method Blank	Total Recoverable	Water	6020	332122
LCS 400-332122/2-A	Lab Control Sample	Total Recoverable	Water	6020	332122
400-130361-1 MS	MW-1	Total Recoverable	Water	6020	332122
400-130361-1 MSD	MW-1	Total Recoverable	Water	6020	332122

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-3
 SDG: Gypsum

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-332122/1-A ^5
Matrix: Water
Analysis Batch: 343543

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 332122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<0.0065		0.020	0.0065	mg/L		11/22/16 13:00	11/23/16 11:37	5

Lab Sample ID: LCS 400-332122/2-A
Matrix: Water
Analysis Batch: 343543

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 332122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Zinc	0.0500	0.0499		mg/L		100	80 - 120

Lab Sample ID: 400-130361-1 MS
Matrix: Water
Analysis Batch: 343543

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 332122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Zinc	<0.0065		0.0500	0.0547		mg/L		109	75 - 125

Lab Sample ID: 400-130361-1 MSD
Matrix: Water
Analysis Batch: 343543

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 332122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Zinc	<0.0065		0.0500	0.0556		mg/L		111	75 - 125	2	20

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-130361-3

SDG Number: Gypsum

Login Number: 130361

List Number: 1

Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1°C, 4.6°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-130361-3
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-132733-1

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

Revision: 1

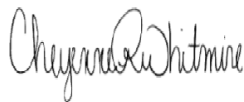
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

3/28/2017 2:06:24 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Job ID: 400-132733-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-132733-1

General Chemistry

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 339607 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

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Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: EB-01

Lab Sample ID: 400-132733-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00050	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable

Client Sample ID: FB-01

Lab Sample ID: 400-132733-2

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-132733-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00054	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.10		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0018	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00038	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	10		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 400-132733-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.18		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00035	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	5.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0032		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	68		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.8		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	6.6		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.85				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-132733-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00060	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.048		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.85		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00078	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	12		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.79				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-3

Lab Sample ID: 400-132733-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00055	J	0.0013	0.00046	mg/L	5		6020	Total
Barium	0.10		0.0025	0.00049	mg/L	5		6020	Recoverable Total
Calcium	1.0		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.0018	J	0.0025	0.00040	mg/L	5		6020	Recoverable Total
Lead	0.00039	J	0.0013	0.00035	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	9.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.39				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-132733-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.055		0.0025	0.00049	mg/L	5		6020	Total
Calcium	1.6		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.0015	J	0.0025	0.00040	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.2		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-132733-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.065		0.0025	0.00049	mg/L	5		6020	Total
Calcium	2.0		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.00088	J	0.0025	0.00040	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	9.8		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.76				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-132733-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.065		0.0025	0.00049	mg/L	5		6020	Total
Calcium	1.2		0.25	0.13	mg/L	5		6020	Recoverable Total
Cobalt	0.0022	J	0.0025	0.00040	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.1		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.1	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.61				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-7

Lab Sample ID: 400-132733-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00044	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0021	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.47				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-132733-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.10		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00034	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	2.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0014	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	36		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.77				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-132733-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.039		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.83		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0024	J	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0011	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Chloride	7.8		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.89				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-132733-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.030		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00058	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	20		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	5.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	5.18				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
Field Sampling	Field Sampling	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-132733-1	EB-01	Water	01/16/17 14:00	01/17/17 17:33
400-132733-2	FB-01	Water	01/16/17 13:35	01/17/17 17:33
400-132733-3	DUP-01	Water	01/16/17 07:10	01/17/17 17:33
400-132733-4	MW-1	Water	01/16/17 12:58	01/17/17 17:33
400-132733-5	MW-2	Water	01/16/17 16:28	01/17/17 17:33
400-132733-6	MW-3	Water	01/16/17 08:10	01/17/17 17:33
400-132733-7	MW-4	Water	01/16/17 10:38	01/17/17 17:33
400-132733-8	MW-5	Water	01/16/17 11:39	01/17/17 17:33
400-132733-9	MW-6	Water	01/16/17 09:07	01/17/17 17:33
400-132733-10	MW-7	Water	01/16/17 13:45	01/17/17 17:33
400-132733-11	MW-8	Water	01/17/17 10:27	01/17/17 17:33
400-132733-12	MW-9	Water	01/17/17 09:27	01/17/17 17:33
400-132733-13	MW-10	Water	01/17/17 11:32	01/17/17 17:33

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 01/16/17 14:00
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 20:09	5
Arsenic	0.00050	J	0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 20:09	5
Barium	<0.00049		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 20:09	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:09	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 20:09	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:09	5
Calcium	<0.13		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 20:09	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 20:09	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 20:09	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 20:09	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 20:09	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 20:09	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 20:09	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 20:09	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	<0.60		2.0	0.60	mg/L			01/18/17 16:36	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 18:28	1
Sulfate	<1.4		5.0	1.4	mg/L			01/20/17 11:10	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 01/16/17 13:35
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 20:13	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 20:13	5
Barium	<0.00049		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 20:13	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:13	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 20:13	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:13	5
Calcium	<0.13		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 20:13	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 20:13	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 20:13	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 20:13	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 20:13	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 20:13	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 20:13	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 20:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	<0.60		2.0	0.60	mg/L			01/18/17 16:36	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 18:30	1
Sulfate	<1.4		5.0	1.4	mg/L			01/20/17 11:10	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 01/16/17 07:10
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 20:18	5
Arsenic	0.00054	J	0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 20:18	5
Barium	0.10		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 20:18	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:18	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 20:18	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:18	5
Calcium	1.0		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 20:18	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 20:18	5
Cobalt	0.0018	J	0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 20:18	5
Lead	0.00038	J	0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 20:18	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 20:18	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 20:18	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 20:18	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 20:18	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	10		2.0	0.60	mg/L			01/18/17 16:36	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 18:36	1
Sulfate	<1.4		5.0	1.4	mg/L			01/20/17 11:10	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 01/16/17 12:58
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 20:22	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 20:22	5
Barium	0.18		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 20:22	5
Beryllium	0.00035	J	0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:22	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 20:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:22	5
Calcium	5.0		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 20:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 20:22	5
Cobalt	0.0032		0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 20:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 20:22	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 20:22	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 20:22	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 20:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 20:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	68		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	7.8		2.0	0.60	mg/L			01/18/17 16:36	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 18:40	1
Sulfate	6.6		5.0	1.4	mg/L			01/20/17 11:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.85				SU			01/16/17 12:58	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 01/16/17 16:28
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 20:27	5
Arsenic	0.00060	J	0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 20:27	5
Barium	0.048		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 20:27	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:27	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 20:27	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:27	5
Calcium	0.85		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 20:27	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 20:27	5
Cobalt	0.00078	J	0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 20:27	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 20:27	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 20:27	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 20:27	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 20:27	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 20:27	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	7.9		2.0	0.60	mg/L			01/18/17 16:36	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 18:42	1
Sulfate	<1.4		5.0	1.4	mg/L			01/20/17 11:10	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.79				SU			01/16/17 16:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 01/16/17 08:10
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 20:31	5
Arsenic	0.00055	J	0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 20:31	5
Barium	0.10		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 20:31	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:31	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 20:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:31	5
Calcium	1.0		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 20:31	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 20:31	5
Cobalt	0.0018	J	0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 20:31	5
Lead	0.00039	J	0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 20:31	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 20:31	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 20:31	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 20:31	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 20:31	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	9.9		2.0	0.60	mg/L			01/18/17 16:36	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 18:46	1
Sulfate	<1.4		5.0	1.4	mg/L			01/24/17 10:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.39				SU			01/16/17 08:10	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 01/16/17 10:38
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 20:58	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 20:58	5
Barium	0.055		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 20:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:58	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 20:58	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 20:58	5
Calcium	1.6		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 20:58	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 20:58	5
Cobalt	0.0015 J		0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 20:58	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 20:58	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 20:58	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 20:58	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 20:58	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 20:58	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	7.2		2.0	0.60	mg/L			01/20/17 09:48	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 18:54	1
Sulfate	<1.4		5.0	1.4	mg/L			01/24/17 10:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.82				SU			01/16/17 10:38	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 01/16/17 11:39
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 21:03	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 21:03	5
Barium	0.065		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 21:03	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:03	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 21:03	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:03	5
Calcium	2.0		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 21:03	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 21:03	5
Cobalt	0.00088	J	0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 21:03	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 21:03	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 21:03	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 21:03	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 21:03	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 21:03	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	9.8		2.0	0.60	mg/L			01/20/17 09:48	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 19:00	1
Sulfate	<1.4	F1	5.0	1.4	mg/L			01/24/17 10:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.76				SU			01/16/17 11:39	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 01/16/17 09:07
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 21:07	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 21:07	5
Barium	0.065		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 21:07	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:07	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 21:07	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:07	5
Calcium	1.2		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 21:07	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 21:07	5
Cobalt	0.0022	J	0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 21:07	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 21:07	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 21:07	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 21:07	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 21:07	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 21:07	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	7.1		2.0	0.60	mg/L			01/20/17 09:48	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 19:04	1
Sulfate	2.1	J	5.0	1.4	mg/L			01/24/17 10:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.61				SU			01/16/17 09:07	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 01/16/17 13:45
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 21:12	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 21:12	5
Barium	0.15		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 21:12	5
Beryllium	0.00044	J	0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:12	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 21:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:12	5
Calcium	1.8		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 21:12	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 21:12	5
Cobalt	0.0021	J	0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 21:12	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 21:12	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 21:12	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 21:12	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 21:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 21:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			01/18/17 13:19	1
Chloride	16		2.0	0.60	mg/L			01/20/17 09:48	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 19:07	1
Sulfate	<1.4		5.0	1.4	mg/L			01/24/17 10:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.47				SU			01/16/17 13:45	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 01/17/17 10:27
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 21:16	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 21:16	5
Barium	0.10		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 21:16	5
Beryllium	0.00034	J	0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:16	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 21:16	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:16	5
Calcium	2.3		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 21:16	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 21:16	5
Cobalt	0.0014	J	0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 21:16	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 21:16	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 21:16	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 21:16	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 21:16	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 21:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	3.4	mg/L			01/19/17 12:49	1
Chloride	8.9		2.0	0.60	mg/L			01/20/17 09:48	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 19:11	1
Sulfate	<1.4		5.0	1.4	mg/L			01/24/17 10:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.77				SU			01/17/17 10:27	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 01/17/17 09:27
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 21:21	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 21:21	5
Barium	0.039		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 21:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:21	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 21:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:21	5
Calcium	0.83		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 21:21	5
Chromium	0.0024	J	0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 21:21	5
Cobalt	0.0011	J	0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 21:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 21:21	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 21:21	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 21:21	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 21:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 21:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			01/19/17 12:49	1
Chloride	7.8		2.0	0.60	mg/L			01/20/17 09:48	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 19:14	1
Sulfate	<1.4		5.0	1.4	mg/L			01/24/17 10:34	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.89				SU			01/17/17 09:27	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 01/17/17 11:32
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-13
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 21:25	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 21:25	5
Barium	0.030		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 21:25	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:25	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 21:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 21:25	5
Calcium	1.2		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 21:25	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 21:25	5
Cobalt	0.00058	J	0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 21:25	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 21:25	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 21:25	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 21:25	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 21:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 21:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 13:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20		5.0	3.4	mg/L			01/19/17 12:49	1
Chloride	5.3		2.0	0.60	mg/L			01/20/17 09:48	1
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 19:16	1
Sulfate	<1.4		5.0	1.4	mg/L			01/24/17 10:37	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.18				SU			01/17/17 11:32	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 01/16/17 14:00
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 20:09	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	338981	01/18/17 16:36	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 18:28	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339236	01/20/17 11:10	BJB	TAL PEN

Client Sample ID: FB-01
Date Collected: 01/16/17 13:35
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 20:13	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	338981	01/18/17 16:36	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 18:30	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339236	01/20/17 11:10	BJB	TAL PEN

Client Sample ID: DUP-01
Date Collected: 01/16/17 07:10
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 20:18	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	338981	01/18/17 16:36	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 18:36	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339236	01/20/17 11:10	BJB	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-1

Date Collected: 01/16/17 12:58

Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 20:22	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	338981	01/18/17 16:36	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 18:40	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339236	01/20/17 11:10	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/16/17 12:58	BWS	TAL PEN

Client Sample ID: MW-2

Date Collected: 01/16/17 16:28

Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 20:27	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	338981	01/18/17 16:36	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 18:42	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339236	01/20/17 11:10	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/16/17 16:28	BWS	TAL PEN

Client Sample ID: MW-3

Date Collected: 01/16/17 08:10

Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 20:31	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:18	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	338981	01/18/17 16:36	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 18:46	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339607	01/24/17 10:34	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/16/17 08:10	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 01/16/17 10:38
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 20:58	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:19	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	339235	01/20/17 09:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 18:54	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339607	01/24/17 10:34	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/16/17 10:38	BWS	TAL PEN

Client Sample ID: MW-5
Date Collected: 01/16/17 11:39
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 21:03	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	339235	01/20/17 09:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 19:00	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339607	01/24/17 10:34	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/16/17 11:39	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 01/16/17 09:07
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 21:07	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:30	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	339235	01/20/17 09:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 19:04	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339607	01/24/17 10:34	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/16/17 09:07	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 01/16/17 13:45
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 21:12	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	338922	01/18/17 13:19	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	339235	01/20/17 09:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 19:07	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339607	01/24/17 10:34	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/16/17 13:45	BWS	TAL PEN

Client Sample ID: MW-8
Date Collected: 01/17/17 10:27
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 21:16	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:32	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	339088	01/19/17 12:49	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	339235	01/20/17 09:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 19:11	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339607	01/24/17 10:34	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/17/17 10:27	BWS	TAL PEN

Client Sample ID: MW-9
Date Collected: 01/17/17 09:27
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 21:21	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	339088	01/19/17 12:49	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	339235	01/20/17 09:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 19:14	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339607	01/24/17 10:34	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/17/17 09:27	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Client Sample ID: MW-10

Date Collected: 01/17/17 11:32

Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			339177	01/20/17 09:40	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	339365	01/20/17 21:25	DRE	TAL PEN
Total/NA	Prep	7470A			339034	01/22/17 12:43	JAP	TAL PEN
Total/NA	Analysis	7470A		1	339484	01/23/17 13:35	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	339088	01/19/17 12:49	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	339235	01/20/17 09:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	339980	01/26/17 19:16	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	339607	01/24/17 10:37	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	343304	01/17/17 11:32	BWS	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Metals

Prep Batch: 339034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total/NA	Water	7470A	
400-132733-2	FB-01	Total/NA	Water	7470A	
400-132733-3	DUP-01	Total/NA	Water	7470A	
400-132733-4	MW-1	Total/NA	Water	7470A	
400-132733-5	MW-2	Total/NA	Water	7470A	
400-132733-6	MW-3	Total/NA	Water	7470A	
400-132733-7	MW-4	Total/NA	Water	7470A	
400-132733-8	MW-5	Total/NA	Water	7470A	
400-132733-9	MW-6	Total/NA	Water	7470A	
400-132733-10	MW-7	Total/NA	Water	7470A	
400-132733-11	MW-8	Total/NA	Water	7470A	
400-132733-12	MW-9	Total/NA	Water	7470A	
400-132733-13	MW-10	Total/NA	Water	7470A	
MB 400-339034/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-339034/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-132733-4 MS	MW-1	Total/NA	Water	7470A	
400-132733-4 MSD	MW-1	Total/NA	Water	7470A	

Prep Batch: 339177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total Recoverable	Water	3005A	
400-132733-2	FB-01	Total Recoverable	Water	3005A	
400-132733-3	DUP-01	Total Recoverable	Water	3005A	
400-132733-4	MW-1	Total Recoverable	Water	3005A	
400-132733-5	MW-2	Total Recoverable	Water	3005A	
400-132733-6	MW-3	Total Recoverable	Water	3005A	
400-132733-7	MW-4	Total Recoverable	Water	3005A	
400-132733-8	MW-5	Total Recoverable	Water	3005A	
400-132733-9	MW-6	Total Recoverable	Water	3005A	
400-132733-10	MW-7	Total Recoverable	Water	3005A	
400-132733-11	MW-8	Total Recoverable	Water	3005A	
400-132733-12	MW-9	Total Recoverable	Water	3005A	
400-132733-13	MW-10	Total Recoverable	Water	3005A	
MB 400-339177/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-339177/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 339365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total Recoverable	Water	6020	339177
400-132733-2	FB-01	Total Recoverable	Water	6020	339177
400-132733-3	DUP-01	Total Recoverable	Water	6020	339177
400-132733-4	MW-1	Total Recoverable	Water	6020	339177
400-132733-5	MW-2	Total Recoverable	Water	6020	339177
400-132733-6	MW-3	Total Recoverable	Water	6020	339177
400-132733-7	MW-4	Total Recoverable	Water	6020	339177
400-132733-8	MW-5	Total Recoverable	Water	6020	339177
400-132733-9	MW-6	Total Recoverable	Water	6020	339177
400-132733-10	MW-7	Total Recoverable	Water	6020	339177
400-132733-11	MW-8	Total Recoverable	Water	6020	339177
400-132733-12	MW-9	Total Recoverable	Water	6020	339177
400-132733-13	MW-10	Total Recoverable	Water	6020	339177

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Metals (Continued)

Analysis Batch: 339365 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-339177/1-A ^5	Method Blank	Total Recoverable	Water	6020	339177
LCS 400-339177/2-A	Lab Control Sample	Total Recoverable	Water	6020	339177

Analysis Batch: 339484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total/NA	Water	7470A	339034
400-132733-2	FB-01	Total/NA	Water	7470A	339034
400-132733-3	DUP-01	Total/NA	Water	7470A	339034
400-132733-4	MW-1	Total/NA	Water	7470A	339034
400-132733-5	MW-2	Total/NA	Water	7470A	339034
400-132733-6	MW-3	Total/NA	Water	7470A	339034
400-132733-7	MW-4	Total/NA	Water	7470A	339034
400-132733-8	MW-5	Total/NA	Water	7470A	339034
400-132733-9	MW-6	Total/NA	Water	7470A	339034
400-132733-10	MW-7	Total/NA	Water	7470A	339034
400-132733-11	MW-8	Total/NA	Water	7470A	339034
400-132733-12	MW-9	Total/NA	Water	7470A	339034
400-132733-13	MW-10	Total/NA	Water	7470A	339034
MB 400-339034/14-A	Method Blank	Total/NA	Water	7470A	339034
LCS 400-339034/15-A	Lab Control Sample	Total/NA	Water	7470A	339034
400-132733-4 MS	MW-1	Total/NA	Water	7470A	339034
400-132733-4 MSD	MW-1	Total/NA	Water	7470A	339034

General Chemistry

Analysis Batch: 338922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total/NA	Water	SM 2540C	
400-132733-2	FB-01	Total/NA	Water	SM 2540C	
400-132733-3	DUP-01	Total/NA	Water	SM 2540C	
400-132733-4	MW-1	Total/NA	Water	SM 2540C	
400-132733-5	MW-2	Total/NA	Water	SM 2540C	
400-132733-6	MW-3	Total/NA	Water	SM 2540C	
400-132733-7	MW-4	Total/NA	Water	SM 2540C	
400-132733-8	MW-5	Total/NA	Water	SM 2540C	
400-132733-9	MW-6	Total/NA	Water	SM 2540C	
400-132733-10	MW-7	Total/NA	Water	SM 2540C	
MB 400-338922/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-338922/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-132733-4 DU	MW-1	Total/NA	Water	SM 2540C	

Analysis Batch: 338981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total/NA	Water	SM 4500 CI- E	
400-132733-2	FB-01	Total/NA	Water	SM 4500 CI- E	
400-132733-3	DUP-01	Total/NA	Water	SM 4500 CI- E	
400-132733-4	MW-1	Total/NA	Water	SM 4500 CI- E	
400-132733-5	MW-2	Total/NA	Water	SM 4500 CI- E	
400-132733-6	MW-3	Total/NA	Water	SM 4500 CI- E	
MB 400-338981/6	Method Blank	Total/NA	Water	SM 4500 CI- E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 338981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-338981/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-338981/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-132607-A-4 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-132607-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 339088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-11	MW-8	Total/NA	Water	SM 2540C	
400-132733-12	MW-9	Total/NA	Water	SM 2540C	
400-132733-13	MW-10	Total/NA	Water	SM 2540C	
MB 400-339088/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-339088/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-132733-12 DU	MW-9	Total/NA	Water	SM 2540C	
400-132733-13 DU	MW-10	Total/NA	Water	SM 2540C	

Analysis Batch: 339235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-7	MW-4	Total/NA	Water	SM 4500 Cl- E	
400-132733-8	MW-5	Total/NA	Water	SM 4500 Cl- E	
400-132733-9	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-132733-10	MW-7	Total/NA	Water	SM 4500 Cl- E	
400-132733-11	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-132733-12	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-132733-13	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 400-339235/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-339235/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-339235/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-132733-7 MS	MW-4	Total/NA	Water	SM 4500 Cl- E	
400-132733-7 MSD	MW-4	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 339236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-132733-2	FB-01	Total/NA	Water	SM 4500 SO4 E	
400-132733-3	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-132733-4	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-132733-5	MW-2	Total/NA	Water	SM 4500 SO4 E	
MB 400-339236/8	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-339236/9	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-339236/5	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-132614-A-5 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-132614-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 339607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-6	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-132733-7	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-132733-8	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-132733-9	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-132733-10	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-132733-11	MW-8	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 339607 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-12	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-132733-13	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 400-339607/8	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-339607/9	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-339607/5	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-132733-8 MS	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-132733-8 MSD	MW-5	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 339980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total/NA	Water	SM 4500 F C	
400-132733-2	FB-01	Total/NA	Water	SM 4500 F C	
400-132733-3	DUP-01	Total/NA	Water	SM 4500 F C	
400-132733-4	MW-1	Total/NA	Water	SM 4500 F C	
400-132733-5	MW-2	Total/NA	Water	SM 4500 F C	
400-132733-6	MW-3	Total/NA	Water	SM 4500 F C	
400-132733-7	MW-4	Total/NA	Water	SM 4500 F C	
400-132733-8	MW-5	Total/NA	Water	SM 4500 F C	
400-132733-9	MW-6	Total/NA	Water	SM 4500 F C	
400-132733-10	MW-7	Total/NA	Water	SM 4500 F C	
400-132733-11	MW-8	Total/NA	Water	SM 4500 F C	
400-132733-12	MW-9	Total/NA	Water	SM 4500 F C	
400-132733-13	MW-10	Total/NA	Water	SM 4500 F C	
MB 400-339980/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-339980/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-132679-A-5 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-132679-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-132733-7 DU	MW-4	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 343304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-4	MW-1	Total/NA	Water	Field Sampling	
400-132733-5	MW-2	Total/NA	Water	Field Sampling	
400-132733-6	MW-3	Total/NA	Water	Field Sampling	
400-132733-7	MW-4	Total/NA	Water	Field Sampling	
400-132733-8	MW-5	Total/NA	Water	Field Sampling	
400-132733-9	MW-6	Total/NA	Water	Field Sampling	
400-132733-10	MW-7	Total/NA	Water	Field Sampling	
400-132733-11	MW-8	Total/NA	Water	Field Sampling	
400-132733-12	MW-9	Total/NA	Water	Field Sampling	
400-132733-13	MW-10	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-339177/1-A ^5
Matrix: Water
Analysis Batch: 339365

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 339177

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		01/20/17 09:40	01/20/17 19:10	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		01/20/17 09:40	01/20/17 19:10	5
Barium	<0.00049		0.0025	0.00049	mg/L		01/20/17 09:40	01/20/17 19:10	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 19:10	5
Boron	<0.021		0.050	0.021	mg/L		01/20/17 09:40	01/20/17 19:10	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		01/20/17 09:40	01/20/17 19:10	5
Calcium	<0.13		0.25	0.13	mg/L		01/20/17 09:40	01/20/17 19:10	5
Chromium	<0.0011		0.0025	0.0011	mg/L		01/20/17 09:40	01/20/17 19:10	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		01/20/17 09:40	01/20/17 19:10	5
Lead	<0.00035		0.0013	0.00035	mg/L		01/20/17 09:40	01/20/17 19:10	5
Lithium	<0.0032		0.0050	0.0032	mg/L		01/20/17 09:40	01/20/17 19:10	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		01/20/17 09:40	01/20/17 19:10	5
Selenium	<0.00024		0.0013	0.00024	mg/L		01/20/17 09:40	01/20/17 19:10	5
Thallium	<0.000085		0.00050	0.000085	mg/L		01/20/17 09:40	01/20/17 19:10	5

Lab Sample ID: LCS 400-339177/2-A
Matrix: Water
Analysis Batch: 339365

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 339177

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0508		mg/L		102	80 - 120
Arsenic	0.0500	0.0496		mg/L		99	80 - 120
Barium	0.0500	0.0490		mg/L		98	80 - 120
Beryllium	0.0500	0.0518		mg/L		104	80 - 120
Boron	0.100	0.0954		mg/L		95	80 - 120
Cadmium	0.0500	0.0494		mg/L		99	80 - 120
Calcium	5.00	4.71		mg/L		94	80 - 120
Chromium	0.0500	0.0504		mg/L		101	80 - 120
Cobalt	0.0500	0.0467		mg/L		93	80 - 120
Lead	0.0500	0.0466		mg/L		93	80 - 120
Lithium	0.0500	0.0526		mg/L		105	80 - 120
Molybdenum	0.100	0.0986		mg/L		99	80 - 120
Selenium	0.0500	0.0494		mg/L		99	80 - 120
Thallium	0.0100	0.00972		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-339034/14-A
Matrix: Water
Analysis Batch: 339484

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 339034

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		01/22/17 12:43	01/23/17 12:43	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 400-339034/15-A
Matrix: Water
Analysis Batch: 339484

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 339034

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.00107		mg/L		106	80 - 120

Lab Sample ID: 400-132733-4 MS
Matrix: Water
Analysis Batch: 339484

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 339034

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.000070		0.00201	0.00219		mg/L		109	80 - 120

Lab Sample ID: 400-132733-4 MSD
Matrix: Water
Analysis Batch: 339484

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 339034

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.000070		0.00201	0.00209		mg/L		104	80 - 120	4	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-338922/1
Matrix: Water
Analysis Batch: 338922

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			01/18/17 13:19	1

Lab Sample ID: LCS 400-338922/2
Matrix: Water
Analysis Batch: 338922

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	293	262		mg/L		89	78 - 122

Lab Sample ID: 400-132733-4 DU
Matrix: Water
Analysis Batch: 338922

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	68		68.0		mg/L		0	5

Lab Sample ID: MB 400-339088/1
Matrix: Water
Analysis Batch: 339088

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			01/19/17 12:49	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 400-339088/2
Matrix: Water
Analysis Batch: 339088

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	278		mg/L		95	78 - 122

Lab Sample ID: 400-132733-12 DU
Matrix: Water
Analysis Batch: 339088

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	<3.4		<3.4		mg/L		NC	5

Lab Sample ID: 400-132733-13 DU
Matrix: Water
Analysis Batch: 339088

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	20		20.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-338981/6
Matrix: Water
Analysis Batch: 338981

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			01/18/17 12:30	1

Lab Sample ID: LCS 400-338981/7
Matrix: Water
Analysis Batch: 338981

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	32.6		mg/L		109	90 - 110

Lab Sample ID: MRL 400-338981/3
Matrix: Water
Analysis Batch: 338981

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.82	J	mg/L		91	50 - 150

Lab Sample ID: 400-132607-A-4 MS
Matrix: Water
Analysis Batch: 338981

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	13		10.0	22.1		mg/L		93	73 - 120

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-132607-A-4 MSD
Matrix: Water
Analysis Batch: 338981

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	13		10.0	23.5		mg/L		107	73 - 120	6	8

Lab Sample ID: MB 400-339235/6
Matrix: Water
Analysis Batch: 339235

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			01/20/17 08:40	1

Lab Sample ID: LCS 400-339235/7
Matrix: Water
Analysis Batch: 339235

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.4		mg/L		105	90 - 110

Lab Sample ID: MRL 400-339235/3
Matrix: Water
Analysis Batch: 339235

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	2.12		mg/L		106	50 - 150

Lab Sample ID: 400-132733-7 MS
Matrix: Water
Analysis Batch: 339235

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.2		10.0	18.6		mg/L		114	73 - 120

Lab Sample ID: 400-132733-7 MSD
Matrix: Water
Analysis Batch: 339235

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.2		10.0	18.1		mg/L		109	73 - 120	3	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-339980/3
Matrix: Water
Analysis Batch: 339980

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			01/26/17 18:07	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-339980/4
Matrix: Water
Analysis Batch: 339980

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.13		mg/L		103	90 - 110

Lab Sample ID: 400-132679-A-5 MS
Matrix: Water
Analysis Batch: 339980

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.0		1.00	2.08		mg/L		106	75 - 125

Lab Sample ID: 400-132679-A-5 MSD
Matrix: Water
Analysis Batch: 339980

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	1.0		1.00	2.04		mg/L		102	75 - 125	2	4

Lab Sample ID: 400-132733-7 DU
Matrix: Water
Analysis Batch: 339980

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	<0.032		<0.032		mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-339236/8
Matrix: Water
Analysis Batch: 339236

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			01/20/17 08:46	1

Lab Sample ID: LCS 400-339236/9
Matrix: Water
Analysis Batch: 339236

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.1		mg/L		101	90 - 110

Lab Sample ID: MRL 400-339236/5
Matrix: Water
Analysis Batch: 339236

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.49	J	mg/L		90	50 - 150

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-132614-A-5 MS
Matrix: Water
Analysis Batch: 339236

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	17		10.0	25.5		mg/L		83	77 - 128

Lab Sample ID: 400-132614-A-5 MSD
Matrix: Water
Analysis Batch: 339236

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	17		10.0	26.0		mg/L		88	77 - 128	2	5

Lab Sample ID: MB 400-339607/8
Matrix: Water
Analysis Batch: 339607

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			01/24/17 08:46	1

Lab Sample ID: LCS 400-339607/9
Matrix: Water
Analysis Batch: 339607

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.4		mg/L		103	90 - 110

Lab Sample ID: MRL 400-339607/5
Matrix: Water
Analysis Batch: 339607

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.67	J	mg/L		93	50 - 150

Lab Sample ID: 400-132733-8 MS
Matrix: Water
Analysis Batch: 339607

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4	F1	10.0	<1.4	F1	mg/L		0	77 - 128

Lab Sample ID: 400-132733-8 MSD
Matrix: Water
Analysis Batch: 339607

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4	F1	10.0	<1.4	F1	mg/L		0	77 - 128	NC	5

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
 Client Contact: Mr. Dale Sellers
 Company: Southern Company
 Address: PO BOX 2641 GSC8
 City: Birmingham
 State, Zip: AL, 35291
 Phone: 205-992-7762(Tel)
 Email: CSSELLER@SOUTHERNCO.COM
 Project Name: CCR - Plant Daniel
 Site: Mississippi

Sample: Five Hydrocarbons / Surfer
 Lab Pk: Whitire, Chyenne R
 Project #: 40016521
 SOW#: SSOW#

Carrier Tracking No(s): 400-61562-24634.1
 Page: Page 1 of 2
 Lab #:

Analysis Requested

Due Date Requested: _____
 TAT Requested (days): _____

PO #: SCS10328728
 MO #: 37180
 Project #: 40016521
 SOW#: SSOW#

Matrix (Preparation, Storage, Distribution, Preparation, Analysis)

Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix
1-16-17	1400	Water	Water
1-16-17	1335	Water	Water
1-16-17	0710	Water	Water

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other: _____

Special Instructions (Note):
 4500 J.F.5 - Florida
 2540C - Total Dissolved Solids
 6020, 7470A
 9M4500, C1.E, SM4500, S04.E
 9310, M4220, B320, P4220
 400-132733 COC

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Analysis Requested
EB-01	1-16-17	1400	Water	Water	X X X X X
EB-02	1-16-17	1335	Water	Water	X X X X X
EB-03	1-16-17	0710	Water	Water	X X X X X

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant
 Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Requisitioned by: _____
 Requisitioned by: [Signature]
 Date: 1-17-17 1330
 Company: RAH EW

Requisitioned by: [Signature]
 Date: 1-17-17 1733
 Company: RAH EW

Requisitioned by: [Signature]
 Date: 1-17-17 1330
 Company: RAH EW

Requisitioned by: [Signature]
 Date: 1-17-17 1733
 Company: TA

Cooler Temperature(s) °C and Other Remarks: 0.0°C, 0.0°C, 0.0°C TR6

TestAmerica Pensacola
3355 McLennore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Mr. Cale Sellers
Company: Southern Company
Address: PO BOX 2841 GSC8
City: Birmingham
State, Zip: AL, 35291
Phone: 205-992-7762(Tel)
E-Mail: CESELLER@SOUTHERNCO.COM
Project Name: CR - Plant Dental
Site: Mississippi

Carrier Tracking No(s):
Lab Pk# / Whittire, Cheyenne R
E-Mail: cheyenne.whittire@testamericainc.com
JOCOC No: 400-61562-24534.2
Page: Page 2 of 2
SSW#: 850-3360192

Analysis Requested
Due Date Requested:
PAT Requested (days):
PO #: SCS10328728
VO #: 37180
Project #: 4006621
SSOW#:
Preservation Codes:
M - Hexane
N - Nene
O - As₂O₃
P - Na₂OAS
Q - Na₂SO₃
R - Na₂SO₄
S - H₂SO₄
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - PH 4.5
X - EDTA
Y - Other (specify)
Z - Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Inorganic, Organic, Chemical, Physical, Biological)	8119, 8126, 9320, R4228	SM4500, CL E, SM4500, SO4 E	6020, 7470A	Zinc - Total Dissolved Solids	4500, F - Fluoride	Special Instructions/Note:
MW-1	1-16-17	1258	G	Water	X	X	X	X	X	
MW-2	1-16-17	1628	G	Water	X	X	X	X	X	
MW-3	1-16-17	0810	G	Water	X	X	X	X	X	
MW-4	1-16-17	1038	G	Water	X	X	X	X	X	
MW-5	1-16-17	1139	G	Water	X	X	X	X	X	
MW-6	1-16-17	0907	G	Water	X	X	X	X	X	
MW-7	1-16-17	1345	G	Water	X	X	X	X	X	
MW-8	1-17-17	1027	G	Water	X	X	X	X	X	
MW-9	1-17-17	0927	G	Water	X	X	X	X	X	
MW-10	1-17-17	1132	G	Water	X	X	X	X	X	

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant
Deleterious Requested: I, II, III, IV, Other (specify)
Empty Kit Relinquished by:
Relinquished by: [Signature] Date: 1-17-17
Relinquished by: [Signature] Date: 1-17-17
Relinquished by: [Signature] Date: 1-17-17
Custody Seal Intact: Yes No
Custody Seal No.: [Signature] SA-6

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2871

Chain of Custody Record

TestAmerica
 METROLOGICAL TESTING

Client Information
 Client Contact: Mr. Date Sellers
 Company: Southern Company
 Address: PO BOX 2641 CSC8
 City: Birmingham
 State, Zip: AL, 35291
 Phone: 205-992-7762(Tel)
 PO #: SCS10328728
 FPO #: 37180
 Project #: 40006621
 CCR #: Plant Daniel
 Site: Mississippi

Analyses Requested
 Analysis Requested
 3918, Ra226, 9320, Ra228
 5M4500, Cl, E, 5M4500, SO4 E
 6020, 7470A
 6240C - Total Dissolved Solids
 4900, F, C - Fluoride

Carrier Tracking Info:
 Lab Pkt: Whitmore, Cherylene R
 E-Mail: cherylene.whitmore@testamerica.com
 Phone: 850 380 3458

Due Date Requested:
 Date Requested (days):

PO #:
 FPO #:
 Project #:
 CCR #:

Sample Identification
 Sample Date
 Sample Time
 Sample Type (C=Comp, G=Grab)
 Matrix (Water, Sewage, Stormwater, Other)

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Analysis Requested	Preservation Codes	Special Instructions/Notes
MW-11	1/19/17	1254	G	Water	3918, Ra226, 9320, Ra228	M - Hexane N - None O - Asb02 P - Ni2OAS Q - Ni2SO3 R - Ni2S2O3 S - H2SO4 T - TSP Doosepyrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
MW-12	1/19/17	0950	G	Water	3918, Ra226, 9320, Ra228		
MW-13	1/19/17	1055	G	Water	3918, Ra226, 9320, Ra228		
MW-14	1/18/17	1415	G	Water	3918, Ra226, 9320, Ra228		
MW-15	1/19/17	0903	G	Water	3918, Ra226, 9320, Ra228		
MW-16	1/18/17	0935	G	Water	3918, Ra226, 9320, Ra228		
MW-17	1/18/17	1121	G	Water	3918, Ra226, 9320, Ra228		
MW-18	1/18/17	1208	G	Water	3918, Ra226, 9320, Ra228		
MW-19	1/18/17	1010	G	Water	3918, Ra226, 9320, Ra228		
Dup-03	1/18/17	0910	G	Water	3918, Ra226, 9320, Ra228		
EB-03	1/19/17	1305	G	Water	3918, Ra226, 9320, Ra228		

Special Instructions/Notes:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Special Instructions/QC Requirements:
 Method of Shipment
 Date: _____

Received by: [Signature]
 Date: 1/19/17
 Company: TA

Received by: [Signature]
 Date: 1/19/17
 Company: 1505

Received by: [Signature]
 Date: 1/19/17
 Company: 1505

Received by: [Signature]
 Date: 1/19/17
 Company: 1505

Received by: [Signature]
 Date: 1/19/17
 Company: 1505

Received by: [Signature]
 Date: 1/19/17
 Company: 1505

5.7°C, 5.1°C, 3.0°C IR6

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-132733-1

SDG Number: Gypsum

Login Number: 132733

List Number: 1

Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 0.0°C, 0.0°C IR-6; 3.0°C, 5.1°C, 5.7°C IR-6
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	



Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-1
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-132733-2

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

Revision: 1

For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

3/28/2017 2:45:43 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Job ID: 400-132733-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-132733-2

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-288784: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: EB-01 (400-132733-1), FB-01 (400-132733-2), DUP-01 (400-132733-3), MW-1 (400-132733-4), MW-2 (400-132733-5), MW-3 (400-132733-6), MW-4 (400-132733-7), MW-5 (400-132733-8), MW-6 (400-132733-9), MW-7 (400-132733-10), MW-8 (400-132733-11), MW-9 (400-132733-12) and MW-10 (400-132733-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep-21: Radium-226 Prep Batch 160-288776: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: EB-01 (400-132733-1), FB-01 (400-132733-2), DUP-01 (400-132733-3), MW-1 (400-132733-4), MW-2 (400-132733-5), MW-3 (400-132733-6), MW-4 (400-132733-7), MW-5 (400-132733-8), MW-6 (400-132733-9), MW-7 (400-132733-10), MW-8 (400-132733-11), MW-9 (400-132733-12) and MW-10 (400-132733-13). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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



Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-132733-1	EB-01	Water	01/16/17 14:00	01/17/17 17:33
400-132733-2	FB-01	Water	01/16/17 13:35	01/17/17 17:33
400-132733-3	DUP-01	Water	01/16/17 07:10	01/17/17 17:33
400-132733-4	MW-1	Water	01/16/17 12:58	01/17/17 17:33
400-132733-5	MW-2	Water	01/16/17 16:28	01/17/17 17:33
400-132733-6	MW-3	Water	01/16/17 08:10	01/17/17 17:33
400-132733-7	MW-4	Water	01/16/17 10:38	01/17/17 17:33
400-132733-8	MW-5	Water	01/16/17 11:39	01/17/17 17:33
400-132733-9	MW-6	Water	01/16/17 09:07	01/17/17 17:33
400-132733-10	MW-7	Water	01/16/17 13:45	01/17/17 17:33
400-132733-11	MW-8	Water	01/17/17 10:27	01/17/17 17:33
400-132733-12	MW-9	Water	01/17/17 09:27	01/17/17 17:33
400-132733-13	MW-10	Water	01/17/17 11:32	01/17/17 17:33

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 01/16/17 14:00
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-1
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	-0.0423	U	0.0685	0.0686	1.00	0.171	pCi/L	01/23/17 15:39	02/14/17 10:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					01/23/17 15:39	02/14/17 10:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.111	U	0.236	0.237	1.00	0.405	pCi/L	01/23/17 16:11	02/10/17 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					01/23/17 16:11	02/10/17 12:35	1
Y Carrier	84.5		40 - 110					01/23/17 16:11	02/10/17 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0692	U	0.246	0.246	5.00	0.405	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 01/16/17 13:35
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-2
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	0.0596	U	0.111	0.112	1.00	0.198	pCi/L	01/23/17 15:39	02/14/17 10:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		40 - 110					01/23/17 15:39	02/14/17 10:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.292	U	0.270	0.271	1.00	0.434	pCi/L	01/23/17 16:11	02/10/17 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		40 - 110					01/23/17 16:11	02/10/17 12:35	1
Y Carrier	85.6		40 - 110					01/23/17 16:11	02/10/17 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.352	U	0.292	0.293	5.00	0.434	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 01/16/17 07:10
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-3
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	0.948		0.241	0.255	1.00	0.190	pCi/L	01/23/17 15:39	02/14/17 10:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.8		40 - 110					01/23/17 15:39	02/14/17 10:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.60		0.373	0.401	1.00	0.429	pCi/L	01/23/17 16:11	02/10/17 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.8		40 - 110					01/23/17 16:11	02/10/17 12:35	1
Y Carrier	86.7		40 - 110					01/23/17 16:11	02/10/17 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.55		0.444	0.475	5.00	0.429	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 01/16/17 12:58
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-4
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	1.28		0.243	0.269	1.00	0.158	pCi/L	01/23/17 15:39	02/15/17 23:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					01/23/17 15:39	02/15/17 23:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.94		0.360	0.401	1.00	0.370	pCi/L	01/23/17 16:11	02/10/17 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					01/23/17 16:11	02/10/17 12:35	1
Y Carrier	86.4		40 - 110					01/23/17 16:11	02/10/17 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.22		0.434	0.483	5.00	0.370	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 01/16/17 16:28
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-5
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	0.369		0.155	0.159	1.00	0.162	pCi/L	01/23/17 15:39	02/14/17 10:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					01/23/17 15:39	02/14/17 10:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.505		0.278	0.282	1.00	0.417	pCi/L	01/23/17 16:11	02/10/17 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.5		40 - 110					01/23/17 16:11	02/10/17 12:35	1
Y Carrier	87.1		40 - 110					01/23/17 16:11	02/10/17 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.874		0.319	0.324	5.00	0.417	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 01/16/17 08:10
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-6
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	0.933		0.230	0.245	1.00	0.177	pCi/L	01/23/17 15:39	02/14/17 10:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					01/23/17 15:39	02/14/17 10:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.348	0.373	1.00	0.419	pCi/L	01/23/17 16:11	02/10/17 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.2		40 - 110					01/23/17 16:11	02/10/17 12:35	1
Y Carrier	85.2		40 - 110					01/23/17 16:11	02/10/17 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.37		0.418	0.446	5.00	0.419	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 01/16/17 10:38
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-7
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	0.498		0.175	0.181	1.00	0.159	pCi/L	01/23/17 15:39	02/14/17 10:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.1		40 - 110					01/23/17 15:39	02/14/17 10:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.288	U	0.259	0.261	1.00	0.415	pCi/L	01/23/17 16:11	02/10/17 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.1		40 - 110					01/23/17 16:11	02/10/17 12:35	1
Y Carrier	83.7		40 - 110					01/23/17 16:11	02/10/17 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.786		0.313	0.317	5.00	0.415	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 01/16/17 11:39
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-8
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	0.525		0.186	0.192	1.00	0.196	pCi/L	01/23/17 15:39	02/14/17 10:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					01/23/17 15:39	02/14/17 10:39	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.30		0.324	0.345	1.00	0.376	pCi/L	01/23/17 16:11	02/10/17 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					01/23/17 16:11	02/10/17 12:35	1
Y Carrier	89.0		40 - 110					01/23/17 16:11	02/10/17 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.83		0.374	0.395	5.00	0.376	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 01/16/17 09:07
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-9
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	0.462		0.184	0.189	1.00	0.211	pCi/L	01/23/17 15:39	02/14/17 10:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					01/23/17 15:39	02/14/17 10:39	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.02		0.334	0.347	1.00	0.447	pCi/L	01/23/17 16:11	02/10/17 12:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					01/23/17 16:11	02/10/17 12:35	1
Y Carrier	88.2		40 - 110					01/23/17 16:11	02/10/17 12:35	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.48		0.381	0.395	5.00	0.447	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 01/16/17 13:45
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-10
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	1.30		0.253	0.279	1.00	0.184	pCi/L	01/23/17 15:39	02/15/17 23:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					01/23/17 15:39	02/15/17 23:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.52		0.337	0.365	1.00	0.380	pCi/L	01/23/17 16:11	02/10/17 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					01/23/17 16:11	02/10/17 12:36	1
Y Carrier	86.4		40 - 110					01/23/17 16:11	02/10/17 12:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.82		0.422	0.460	5.00	0.380	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 01/17/17 10:27
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-11
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	0.738		0.204	0.215	1.00	0.170	pCi/L	01/23/17 15:39	02/14/17 10:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					01/23/17 15:39	02/14/17 10:39	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.80		0.372	0.407	1.00	0.421	pCi/L	01/23/17 16:11	02/10/17 12:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					01/23/17 16:11	02/10/17 12:38	1
Y Carrier	85.6		40 - 110					01/23/17 16:11	02/10/17 12:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.54		0.424	0.460	5.00	0.421	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 01/17/17 09:27
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-12
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	0.290		0.154	0.156	1.00	0.193	pCi/L	01/23/17 15:39	02/14/17 10:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					01/23/17 15:39	02/14/17 10:39	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.487	U	0.332	0.335	1.00	0.520	pCi/L	01/23/17 16:11	02/10/17 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.6		40 - 110					01/23/17 16:11	02/10/17 12:36	1
Y Carrier	85.6		40 - 110					01/23/17 16:11	02/10/17 12:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.777		0.366	0.370	5.00	0.520	pCi/L		02/17/17 09:22	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
 SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 01/17/17 11:32
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-13
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	0.101	U	0.101	0.102	1.00	0.157	pCi/L	01/23/17 15:39	02/14/17 10:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		40 - 110					01/23/17 15:39	02/14/17 10:39	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.475	U	0.311	0.314	1.00	0.485	pCi/L	01/23/17 16:11	02/10/17 12:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		40 - 110					01/23/17 16:11	02/10/17 12:31	1
Y Carrier	85.6		40 - 110					01/23/17 16:11	02/10/17 12:31	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	0.575		0.327	0.330	5.00	0.485	pCi/L		02/17/17 09:22	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 01/16/17 14:00
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292220	02/14/17 10:37	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:35	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Client Sample ID: FB-01
Date Collected: 01/16/17 13:35
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292220	02/14/17 10:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:35	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Client Sample ID: DUP-01
Date Collected: 01/16/17 07:10
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292220	02/14/17 10:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:35	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Client Sample ID: MW-1
Date Collected: 01/16/17 12:58
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292630	02/15/17 23:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:35	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 01/16/17 16:28
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292220	02/14/17 10:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:35	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Client Sample ID: MW-3
Date Collected: 01/16/17 08:10
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292220	02/14/17 10:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:35	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Client Sample ID: MW-4
Date Collected: 01/16/17 10:38
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292220	02/14/17 10:38	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:35	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Client Sample ID: MW-5
Date Collected: 01/16/17 11:39
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292221	02/14/17 10:39	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:35	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 01/16/17 09:07
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292221	02/14/17 10:39	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:35	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Client Sample ID: MW-7
Date Collected: 01/16/17 13:45
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292630	02/15/17 23:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:36	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Client Sample ID: MW-8
Date Collected: 01/17/17 10:27
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292221	02/14/17 10:39	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291912	02/10/17 12:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Client Sample ID: MW-9
Date Collected: 01/17/17 09:27
Date Received: 01/17/17 17:33

Lab Sample ID: 400-132733-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292221	02/14/17 10:39	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291927	02/10/17 12:36	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Client Sample ID: MW-10

Lab Sample ID: 400-132733-13

Date Collected: 01/17/17 11:32

Matrix: Water

Date Received: 01/17/17 17:33

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			288776	01/23/17 15:39	AS	TAL SL
Total/NA	Analysis	9315		1	292221	02/14/17 10:39	RTM	TAL SL
Total/NA	Prep	PrecSep_0			288784	01/23/17 16:11	AS	TAL SL
Total/NA	Analysis	9320		1	291912	02/10/17 12:31	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	293069	02/17/17 09:22	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
 SDG: Gypsum

Rad

Prep Batch: 288776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total/NA	Water	PrecSep-21	
400-132733-2	FB-01	Total/NA	Water	PrecSep-21	
400-132733-3	DUP-01	Total/NA	Water	PrecSep-21	
400-132733-4	MW-1	Total/NA	Water	PrecSep-21	
400-132733-5	MW-2	Total/NA	Water	PrecSep-21	
400-132733-6	MW-3	Total/NA	Water	PrecSep-21	
400-132733-7	MW-4	Total/NA	Water	PrecSep-21	
400-132733-8	MW-5	Total/NA	Water	PrecSep-21	
400-132733-9	MW-6	Total/NA	Water	PrecSep-21	
400-132733-10	MW-7	Total/NA	Water	PrecSep-21	
400-132733-11	MW-8	Total/NA	Water	PrecSep-21	
400-132733-12	MW-9	Total/NA	Water	PrecSep-21	
400-132733-13	MW-10	Total/NA	Water	PrecSep-21	
MB 160-288776/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-288776/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-288776/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 288784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132733-1	EB-01	Total/NA	Water	PrecSep_0	
400-132733-2	FB-01	Total/NA	Water	PrecSep_0	
400-132733-3	DUP-01	Total/NA	Water	PrecSep_0	
400-132733-4	MW-1	Total/NA	Water	PrecSep_0	
400-132733-5	MW-2	Total/NA	Water	PrecSep_0	
400-132733-6	MW-3	Total/NA	Water	PrecSep_0	
400-132733-7	MW-4	Total/NA	Water	PrecSep_0	
400-132733-8	MW-5	Total/NA	Water	PrecSep_0	
400-132733-9	MW-6	Total/NA	Water	PrecSep_0	
400-132733-10	MW-7	Total/NA	Water	PrecSep_0	
400-132733-11	MW-8	Total/NA	Water	PrecSep_0	
400-132733-12	MW-9	Total/NA	Water	PrecSep_0	
400-132733-13	MW-10	Total/NA	Water	PrecSep_0	
MB 160-288784/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-288784/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-288784/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-288776/1-A
Matrix: Water
Analysis Batch: 292220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 288776

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.005148	U	0.0934	0.0934	1.00	0.190	pCi/L	01/23/17 15:39	02/14/17 10:37	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		40 - 110						
	74.4					01/23/17 15:39	02/14/17 10:37	1		

Lab Sample ID: LCS 160-288776/2-A
Matrix: Water
Analysis Batch: 292630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 288776

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	6.01	7.435		0.881	1.00	0.147	pCi/L	124	68 - 137
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier		40 - 110					
	74.6								

Lab Sample ID: LCSD 160-288776/3-A
Matrix: Water
Analysis Batch: 292630

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 288776

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	6.01	7.306		0.865	1.00	0.174	pCi/L	122	68 - 137	0.07	1
Carrier	LCSD LCSD		Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier		40 - 110							
	76.9										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-288784/1-A
Matrix: Water
Analysis Batch: 291927

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 288784

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.04269	U	0.292	0.292	1.00	0.524	pCi/L	01/23/17 16:11	02/10/17 12:34	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier		40 - 110						
	74.4					01/23/17 16:11	02/10/17 12:34	1		
Y Carrier	%Yield	Qualifier	40 - 110							
	84.9					01/23/17 16:11	02/10/17 12:34	1		

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
 SDG: Gypsum

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-288784/2-A
Matrix: Water
Analysis Batch: 291927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 288784

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.9	18.31		1.95	1.00	0.498	pCi/L	132	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	74.6		40 - 110
Y Carrier	87.5		40 - 110

Lab Sample ID: LCSD 160-288784/3-A
Matrix: Water
Analysis Batch: 291927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 288784

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	13.9	18.10		1.93	1.00	0.478	pCi/L	131	56 - 140	0.06	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	76.9		40 - 110
Y Carrier	85.2		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
 Client Contact: *Michelle Ayers / SWT*
 Name: *Michelle Ayers / SWT*
 Email: *cheyenne.wright@testamerica.com*
 Southern Company
 Address: *PO BOX 2641 GSC8*
 City: *Birmingham*
 State, Zip: *AL, 35291*
 Phone: *205-992-7762(Tel)*
 Email: *CSSELLER@SOUTHERNCO.COM*
 Project Name: *CCR - Plant Daniel*
 Site: *Mississippi*

Carrier Tracking No(s):

COO No: 400-61562-24634.1
 Page: Page 1 of 2
 Lab #:

Analysis Requested
 Due Date Requested:
 TAT Requested (days):
 PO #: SCS10328728
 MO #: 37180
 Project #: 40016521
 SSOW#: *4900 J.F. - Florida*



400-132733 COC

- Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:
 M - Hexane
 N - None
 O - Aqueous
 P - Na2CO3
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecylhydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 X - EDTA
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Element, Compound, Distribution, Preparation, Analyte)	Analysis Requested	Special Instructions/Notes
EB-01	1-16-17	1400	Water	Water	9310, Na220, B320, Pb220, 9M4500, Cl E, 5M4500, SO4 E, 6020, Y470A, 2540C - Total Dissolved Solids, 4900 J.F. - Florida	
EB-02			Water	Water		
EB-03			Water	Water		
EB-04	1-16-17	1335	Water	Water		
EB-05			Water	Water		
EB-06			Water	Water		
DUP-01	1-16-17	0710	Water	Water		
DUP-02			Water	Water		
DUP-03			Water	Water		

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty/Kit Requisitioned by: *[Signature]*
 Requisitioned by: *[Signature]*
 Requisitioned by: *[Signature]*
 Requisitioned by: *[Signature]*

Special Instructions/OC Requirements:
 Return To City-t Disposal By Lab Archive For _____ Months
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Date Time: 1-17-17 1330
 Date Time: 1-17-17 1733
 Date Time: 1-17-17 1330
 Date Time: 1-17-17 1733

Company: *RAH EW*
 Company: *RAH EW*
 Company: *TA*
 Company: *TA*

Cooler Temperature(s) °C and Other Remarks: *0.0°C, 0.0°C, 0.0°C TRG*

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
 Client Contact:
 Mr. Cale Sellers

Carrier Tracking No(s):
 Lab Pk#
 Whittire, Cheyenne R
 E-Mail
 cheyenne.whittire@testamericainc.com

IOCOC No:
 400-61562-24534.2
 Page:
 Page 2 of 2
 00 #

Company:
 Southern Company
 Address:
 PO BOX 2841 GSC8
 City:
 Birmingham
 State, Zip:
 AL, 35291
 Phone:
 205-992-7762(Tel)
 E-Mail:
 CESELLER@SOUTHERNCO.COM
 Project Name:
 CR - Plant Dental
 Sizer
 Mississippi

Analysis Requested

Preservation Codes:
 M - Hexane
 N - None
 O - As₂O₃
 P - Na₂OAS
 Q - Na₂SO₃
 R - Na₂SO₃S
 S - H₂SO₄
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - PH 4.5
 X - EDTA
 L - EDA
 Other

Due Date Requested:
 (AT Requested (days):
 PO #:
 SCS10328728
 WO #:
 37180
 Project #:
 4006621
 SOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-grab)	Matrix (Inorganic, Suspended, Chemical, Other)	8916, 8920, 8920, 8920, 8920	SM4500, CL, E, SM4500, SO4, E	6020, 7470A	Zinc - Total Dissolved Solids	4500, F - Fluoride	Special Instructions/Note:
MW-1	1-16-17	1258	G	Water	X	X	X	X	X	
MW-2	1-16-17	1628	G	Water	X	X	X	X	X	
MW-3	1-16-17	0810	G	Water	X	X	X	X	X	
MW-4	1-16-17	1038	G	Water	X	X	X	X	X	
MW-5	1-16-17	1139	G	Water	X	X	X	X	X	
MW-6	1-16-17	0907	G	Water	X	X	X	X	X	
MW-7	1-16-17	1345	G	Water	X	X	X	X	X	
MW-8	1-17-17	1027	G	Water	X	X	X	X	X	
MW-9	1-17-17	0927	G	Water	X	X	X	X	X	
MW-10	1-17-17	1132	G	Water	X	X	X	X	X	

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:
 Relinquished by: [Signature]
 Relinquished on: 1/17/17
 Relinquished at: [Signature]
 Relinquished at: 1/17/17

Method of Shipment:
 Return To Client Disposal By Let Archive For Months

Special Instructions/CC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Let Archive For Months

Date/Time: 1/17/17 1330
 Date/Time: 1-17-17 1733
 Date/Time: 1-17-17 1733

Company: KDH Env
 Company: KDH Env
 Company: KDH Env

Cooler Temperature(s) °C and Other Remarks: 0.0, 0.0, 0.0°C SR-6



TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2871

Chain of Custody Record

TestAmerica
 METAL ANALYTICAL TESTING

Carrier Tracking No. 400-61559-23825.1

Pages: 1 of 2

Preservation Codes:
 M - Hexane
 N - None
 O - Acids
 P - Ni2OAS
 Q - Ni2SO3
 R - Ni2SO4
 S - H2SO4
 T - TSP Doosepyrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

Other: _____

Analysis Requested:
 8020, 7470A, 84400, F, C - Fluoride

Special Instructions/Notes:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Soil, Sediment, Sludge, Other)	Preservation Code
MW-11	1/19/17	1254	G	Water	
MW-12	1/19/17	0950		Water	
MW-13	1/19/17	1055		Water	
MW-14	1/18/17	1415		Water	
MW-15	1/19/17	0903		Water	
MW-16	1/18/17	0935		Water	
MW-17	1/18/17	1121		Water	
MW-18	1/18/17	1208		Water	
MW-19	1/18/17	0910		Water	
Dup-03	1/19/17	1305	G	Water	
EB-03					

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/OC Requirements:

Received by: [Signature] Date: 1/19/17 Time: 1505

Company: TA

Customer: [Signature] Date: 1/19/17 Time: 1505

Company: TA

Notes: 5.7°C, 5.1°C, 3.0°C



SERIAL NUMBER: 83540

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone: 850-474-1001
 Fax: 850-478-2671
 Website: www.testamericainc.com

QUOTE NO.: _____ BOTTLE ORDER NO.: _____
 ORDER - LOG-IN NO.: **C**

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

CLIENT: **Southern Co** ADDRESS: **PO Box 2641 GSC 8**
 PROJECT NO.: _____ CLIENT PROJECT MANAGER: **Benny A. Al 35291**
 ORDERED BY: **CCR - Daniel** CONTRACT / P.O. NO.: _____
 SAMPLED BY: **RDH ENV** CLIENT E-MAIL OR FAX: _____
 CLIENT PHONE: **205 992-7762** CONTRACT / P.O. NO.: _____

TAT REQUESTED: RUSH NEEDS LAB PREAPPROVAL NORMAL 10 BUSINESS DAYS
 1 DAY 2 DAYS 3 DAYS 5 DAYS 20 DAYS (Package) OTHER:
 SAMPLE DISPOSAL: RETURN TO CLIENT DISPOSAL BY LAB
 SEE CONTRACT OTHER:

CLIENT		ADDRESS		PROJECT NO.		CLIENT PROJECT MANAGER		CONTRACT / P.O. NO.		CLIENT E-MAIL OR FAX		SAMPLE IDENTIFICATION		DATE		RELINQUISHED BY: (SIGNATURE)		RECEIVED BY: (SIGNATURE)		DATE		TIME	
Southern Co		PO Box 2641 GSC 8		Benny A. Al 35291		MS						FB-03		1/19/17		[Signature]		[Signature]		1/19/17		1505	
CCR - Daniel		RDH ENV		MS		Coke Sellers						DUP 04		1/19/17		[Signature]		[Signature]		1/19/17		1505	
205 992-7762																							

LAB USE ONLY - SAMPLE NUMBER		REQUESTED ANALYSIS		PAGE		OF	
9315-R-206-R-228		SM4500-C1E, SM4500-CF		2		2	
6620, 7470A		8546C-TDS					
4500-F-C-Fluoride							

PRESERVATIVE		MATRIX		NONAQUEOUS (Oil, Solvent, etc.)	
<input checked="" type="checkbox"/>	No Preservative	<input checked="" type="checkbox"/>	Drinking Water	<input type="checkbox"/>	Air
<input checked="" type="checkbox"/>	HCL - Hydrochloric Acid	<input checked="" type="checkbox"/>	Aqueous GW, SW, WW	<input type="checkbox"/>	Solid, Semisolid, Sediment
<input checked="" type="checkbox"/>	HN03 - Nitric Acid	<input type="checkbox"/>	Other:	<input type="checkbox"/>	
<input type="checkbox"/>	H2SO4 - Sulfuric Acid or H3PO4	<input type="checkbox"/>	NAHSO4 - Sodium Bisulfate	<input type="checkbox"/>	NA2S2O3 - Sodium Thiosulfate
<input type="checkbox"/>	NaOH - Sodium Hydroxide	<input type="checkbox"/>	CH3OH - Methanol	<input type="checkbox"/>	Other:

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-132733-2

SDG Number: Gypsum

Login Number: 132733

List Number: 1

Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 0.0°C, 0.0°C IR-6; 3.0°C, 5.1°C, 5.7°C IR-6
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17
New York	NELAP	2	11616	03-31-17 *

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-132733-2
SDG: Gypsum

Laboratory: TestAmerica St. Louis (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-18
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-135429-1

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel


For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

4/19/2017 3:02:58 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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results through

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Job ID: 400-135429-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-135429-1

Metals

Method(s) 6020: The continuing calibration verification (CCV) associated with batch 347015 recovered above the upper control limit for Lead. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-1 (400-135429-1), MW-2 (400-135429-2), MW-4 (400-135429-4), MW-5 (400-135429-5), MW-6 (400-135429-6), MW-7 (400-135429-7), MW-8 (400-135429-8) and MW-9 (400-135429-9).

Method(s) 6020: The post digestion spike % recovery for Lead associated with batch 347015 was outside of control limits.

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 346866 and analytical batch 347015 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6020: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 346866 and analytical batch 347015 was outside control limits for Chromium. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method(s) 6020: The native sample and post digestion spike (PDS) associated with preparation batch 346866 and analytical batch 347015 were performed at the same dilution. Due to the additional level of analyte present in the spiked sample, the concentration of Molybdenum in the PDS was above the instrument calibration range. The data have been reported and qualified.

Method(s) 6020: The ICSAB for batch 347398 recovered higher than the acceptance limits for element: Chromium. All reported samples associated with this ICSAB were ND, therefore, re-analysis of samples was not performed.

Method(s) 6020: The CRI for analytical batch 347398 contained Chromium above the acceptance limit. All reported samples associated with this CRI are ND, therefore, re-analysis of samples was not performed.

Method(s) 6020: The native sample and post digestion spike (PDS) associated with preparation batch 346980 and analytical batch 347398 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Molybdenum in the PDS was above the instrument calibration range. The data has been reported and qualified.

General Chemistry

Method(s) SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 348007 were outside control limits. Sample matrix interference are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: The method blank for analytical batch 347922 contained Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) SM 4500 SO4 E: The method blank for analytical batch 348054 contained Sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-1

Lab Sample ID: 400-135429-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00054	J	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.19		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00037	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	5.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0050		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Cobalt	0.0038		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0046	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0027		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	12		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	6.6		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.88				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-135429-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.053		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.96		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00094	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Chloride	8.7		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.6	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.87				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-135429-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.096		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.92		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0017	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0018	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00090	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Lead - RA	0.00039	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	12		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.26				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-4

Lab Sample ID: 400-135429-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.059		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.7		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0017	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Chloride	8.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.69				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-135429-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.067		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Cadmium	0.0022	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	2.1		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00096	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	20		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	9.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.5	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.61				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-135429-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.066		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0024	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	10		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	4.8	J B	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.49				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-135429-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.17		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00040	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0025		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	16		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.4	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 400-135429-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	4.22				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-135429-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00036	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0017	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Chloride	9.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.5	J B	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.54				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-135429-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.035		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.84		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0012	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	14		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	4.7	J B	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.92				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-135429-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.026		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.66		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00064	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0051	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0027		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	6.0		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	5.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.9	J B	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.97				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-135429-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15		0.0025	0.00049	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: DUP-01 (Continued)

Lab Sample ID: 400-135429-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.00048	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0025		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0031	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0013		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	44		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	15		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	2.4	J B	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 400-135429-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	2.4	J B	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 400-135429-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.0025	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00045	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Sulfate	2.3	J B	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
Field Sampling	Field Sampling	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001



Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-135429-1	MW-1	Water	03/20/17 16:18	03/21/17 10:26
400-135429-2	MW-2	Water	03/20/17 10:59	03/21/17 10:26
400-135429-3	MW-3	Water	03/20/17 10:17	03/21/17 10:26
400-135429-4	MW-4	Water	03/20/17 13:04	03/21/17 10:26
400-135429-5	MW-5	Water	03/20/17 13:49	03/21/17 10:26
400-135429-6	MW-6	Water	03/20/17 11:16	03/21/17 10:26
400-135429-7	MW-7	Water	03/20/17 08:54	03/21/17 10:26
400-135429-8	MW-8	Water	03/20/17 13:08	03/21/17 10:26
400-135429-9	MW-9	Water	03/20/17 11:48	03/21/17 10:26
400-135429-10	MW-10	Water	03/20/17 14:55	03/21/17 10:26
400-135429-11	DUP-01	Water	03/20/17 00:00	03/21/17 10:26
400-135429-12	EB-01	Water	03/20/17 15:15	03/21/17 10:26
400-135429-13	FB-01	Water	03/20/17 15:10	03/21/17 10:26

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 03/20/17 16:18
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 17:22	5
Arsenic	0.00054	J	0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 17:22	5
Barium	0.19		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 17:22	5
Beryllium	0.00037	J	0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:22	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 17:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:22	5
Calcium	5.3		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 17:22	5
Chromium	0.0050		0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 17:22	5
Cobalt	0.0038		0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 17:22	5
Lead	<0.00035	^	0.0013	0.00035	mg/L		03/23/17 11:48	03/23/17 17:22	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 17:22	5
Molybdenum	0.0046	J	0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 17:22	5
Selenium	0.0027		0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 17:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 17:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12		5.0	3.4	mg/L			03/22/17 12:52	1
Chloride	8.3		2.0	0.60	mg/L			03/30/17 10:37	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 10:27	1
Sulfate	6.6		5.0	1.4	mg/L			03/30/17 10:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.88				SU			03/20/17 16:18	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 03/20/17 10:59
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 17:27	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 17:27	5
Barium	0.053		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 17:27	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:27	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 17:27	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:27	5
Calcium	0.96		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 17:27	5
Chromium	<0.0011	F1 F2	0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 17:27	5
Cobalt	0.00094	J	0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 17:27	5
Lead	<0.00035	^	0.0013	0.00035	mg/L		03/23/17 11:48	03/23/17 17:27	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 17:27	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 17:27	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 17:27	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 17:27	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/01/17 13:01	04/03/17 13:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/22/17 12:52	1
Chloride	8.7		2.0	0.60	mg/L			03/30/17 10:37	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 10:29	1
Sulfate	1.6	J	5.0	1.4	mg/L			03/30/17 10:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.87				SU			03/20/17 10:59	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 03/20/17 10:17
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 17:49	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 17:49	5
Barium	0.096		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 17:49	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:49	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 17:49	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:49	5
Calcium	0.92		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 17:49	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 17:49	5
Cobalt	0.0017	J	0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 17:49	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 17:49	5
Molybdenum	0.0018	J	0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 17:49	5
Selenium	0.00090	J	0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 17:49	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 17:49	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00039	J	0.0013	0.00035	mg/L		03/23/17 11:48	03/27/17 12:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/01/17 13:01	04/03/17 13:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	12		5.0	3.4	mg/L			03/22/17 12:52	1
Chloride	11		2.0	0.60	mg/L			03/30/17 10:37	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 10:37	1
Sulfate	1.4	J	5.0	1.4	mg/L			03/30/17 10:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.26				SU			03/20/17 10:17	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 03/20/17 13:04
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 17:54	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 17:54	5
Barium	0.059		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 17:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:54	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 17:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:54	5
Calcium	1.7		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 17:54	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 17:54	5
Cobalt	0.0017	J	0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 17:54	5
Lead	<0.00035	[^]	0.0013	0.00035	mg/L		03/23/17 11:48	03/23/17 17:54	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 17:54	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 17:54	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 17:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 17:54	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/22/17 12:52	1
Chloride	8.0		2.0	0.60	mg/L			03/30/17 10:37	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 10:44	1
Sulfate	2.5	J	5.0	1.4	mg/L			03/30/17 10:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.69				SU			03/20/17 13:04	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 03/20/17 13:49
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 18:16	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 18:16	5
Barium	0.067		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 18:16	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:16	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 18:16	5
Cadmium	0.0022	J	0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:16	5
Calcium	2.1		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 18:16	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 18:16	5
Cobalt	0.00096	J	0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 18:16	5
Lead	<0.00035	[^]	0.0013	0.00035	mg/L		03/23/17 11:48	03/23/17 18:16	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 18:16	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 18:16	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 18:16	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 18:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		04/01/17 13:01	04/03/17 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20		5.0	3.4	mg/L			03/22/17 12:52	1
Chloride	9.6		2.0	0.60	mg/L			03/30/17 10:37	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 10:47	1
Sulfate	2.5	J	5.0	1.4	mg/L			03/30/17 10:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.61				SU			03/20/17 13:49	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 03/20/17 11:16
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 18:21	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 18:21	5
Barium	0.066		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 18:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:21	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 18:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:21	5
Calcium	1.2		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 18:21	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 18:21	5
Cobalt	0.0024	J	0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 18:21	5
Lead	<0.00035	^	0.0013	0.00035	mg/L		03/23/17 11:48	03/23/17 18:21	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 18:21	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 18:21	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 18:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 18:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10		5.0	3.4	mg/L			03/22/17 12:52	1
Chloride	7.0		2.0	0.60	mg/L			03/31/17 09:33	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 10:50	1
Sulfate	4.8	J B	5.0	1.4	mg/L			03/31/17 09:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.49				SU			03/20/17 11:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 03/20/17 08:54
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 18:25	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 18:25	5
Barium	0.17		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 18:25	5
Beryllium	0.00040	J	0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:25	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 18:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:25	5
Calcium	1.9		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 18:25	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 18:25	5
Cobalt	0.0025		0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 18:25	5
Lead	<0.00035	[^]	0.0013	0.00035	mg/L		03/23/17 11:48	03/23/17 18:25	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 18:25	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 18:25	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 18:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 18:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 11:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16		5.0	3.4	mg/L			03/22/17 12:52	1
Chloride	16		2.0	0.60	mg/L			03/30/17 10:37	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 10:53	1
Sulfate	1.4	J	5.0	1.4	mg/L			03/30/17 10:46	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.22				SU			03/20/17 08:54	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 03/20/17 13:08
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 18:30	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 18:30	5
Barium	0.11		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 18:30	5
Beryllium	0.00036	J	0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:30	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 18:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:30	5
Calcium	1.9		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 18:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 18:30	5
Cobalt	0.0017	J	0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 18:30	5
Lead	<0.00035	[^]	0.0013	0.00035	mg/L		03/23/17 11:48	03/23/17 18:30	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 18:30	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 18:30	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 18:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 18:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 11:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/22/17 12:52	1
Chloride	9.0		2.0	0.60	mg/L			03/30/17 11:21	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 10:56	1
Sulfate	1.5	J B	5.0	1.4	mg/L			04/01/17 08:33	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.54				SU			03/20/17 13:08	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 03/20/17 11:48
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 18:34	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 18:34	5
Barium	0.035		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 18:34	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:34	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 18:34	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 18:34	5
Calcium	0.84		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 18:34	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 18:34	5
Cobalt	0.0012	J	0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 18:34	5
Lead	<0.00035	^	0.0013	0.00035	mg/L		03/23/17 11:48	03/23/17 18:34	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 18:34	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 18:34	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 18:34	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 18:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 15:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	14		5.0	3.4	mg/L			03/26/17 13:42	1
Chloride	7.0		2.0	0.60	mg/L			03/30/17 11:21	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 10:59	1
Sulfate	4.7	J B	5.0	1.4	mg/L			03/31/17 09:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.92				SU			03/20/17 11:48	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 03/20/17 14:55
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/24/17 08:38	03/27/17 13:21	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/24/17 08:38	03/27/17 13:21	5
Barium	0.026		0.0025	0.00049	mg/L		03/24/17 08:38	03/27/17 13:21	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 13:21	5
Boron	<0.021		0.050	0.021	mg/L		03/24/17 08:38	03/27/17 13:21	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 13:21	5
Calcium	0.66		0.25	0.13	mg/L		03/24/17 08:38	03/27/17 13:21	5
Chromium	<0.0011	^	0.0025	0.0011	mg/L		03/24/17 08:38	03/27/17 13:21	5
Cobalt	0.00064	J	0.0025	0.00040	mg/L		03/24/17 08:38	03/27/17 13:21	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/24/17 08:38	03/27/17 13:21	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/24/17 08:38	03/27/17 13:21	5
Molybdenum	0.0051	J	0.015	0.00085	mg/L		03/24/17 08:38	03/27/17 13:21	5
Selenium	0.0027		0.0013	0.00024	mg/L		03/24/17 08:38	03/27/17 13:21	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/24/17 08:38	03/27/17 13:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6.0		5.0	3.4	mg/L			03/26/17 13:42	1
Chloride	5.6		2.0	0.60	mg/L			03/30/17 11:21	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 11:02	1
Sulfate	2.9	J B	5.0	1.4	mg/L			03/31/17 09:26	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.97				SU			03/20/17 14:55	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
 SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 03/20/17 00:00
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/24/17 08:38	03/27/17 13:44	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/24/17 08:38	03/27/17 13:44	5
Barium	0.15		0.0025	0.00049	mg/L		03/24/17 08:38	03/27/17 13:44	5
Beryllium	0.00048	J	0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 13:44	5
Boron	<0.021		0.050	0.021	mg/L		03/24/17 08:38	03/27/17 13:44	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 13:44	5
Calcium	1.8		0.25	0.13	mg/L		03/24/17 08:38	03/27/17 13:44	5
Chromium	<0.0011	[^]	0.0025	0.0011	mg/L		03/24/17 08:38	03/27/17 13:44	5
Cobalt	0.0025		0.0025	0.00040	mg/L		03/24/17 08:38	03/27/17 13:44	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/24/17 08:38	03/27/17 13:44	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/24/17 08:38	03/27/17 13:44	5
Molybdenum	0.0031	J	0.015	0.00085	mg/L		03/24/17 08:38	03/27/17 13:44	5
Selenium	0.0013		0.0013	0.00024	mg/L		03/24/17 08:38	03/27/17 13:44	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/24/17 08:38	03/27/17 13:44	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 12:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44		5.0	3.4	mg/L			03/26/17 13:42	1
Chloride	15		2.0	0.60	mg/L			03/31/17 09:33	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 17:06	1
Sulfate	2.4	J B	5.0	1.4	mg/L			03/31/17 09:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 03/20/17 15:15
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/24/17 08:38	03/27/17 14:06	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/24/17 08:38	03/27/17 14:06	5
Barium	<0.00049		0.0025	0.00049	mg/L		03/24/17 08:38	03/27/17 14:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 14:06	5
Boron	<0.021		0.050	0.021	mg/L		03/24/17 08:38	03/27/17 14:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 14:06	5
Calcium	<0.13		0.25	0.13	mg/L		03/24/17 08:38	03/27/17 14:06	5
Chromium	<0.0011	^	0.0025	0.0011	mg/L		03/24/17 08:38	03/27/17 14:06	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		03/24/17 08:38	03/27/17 14:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/24/17 08:38	03/27/17 14:06	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/24/17 08:38	03/27/17 14:06	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/24/17 08:38	03/27/17 14:06	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/24/17 08:38	03/27/17 14:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/24/17 08:38	03/27/17 14:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 12:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/26/17 12:59	1
Chloride	<0.60		2.0	0.60	mg/L			03/31/17 09:33	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 17:08	1
Sulfate	2.4	J B	5.0	1.4	mg/L			03/31/17 09:26	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 03/20/17 15:10
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-13
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/24/17 08:38	03/27/17 14:23	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/24/17 08:38	03/27/17 14:23	5
Barium	<0.00049		0.0025	0.00049	mg/L		03/24/17 08:38	03/27/17 14:23	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 14:23	5
Boron	<0.021		0.050	0.021	mg/L		03/24/17 08:38	03/27/17 14:23	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 14:23	5
Calcium	<0.13		0.25	0.13	mg/L		03/24/17 08:38	03/27/17 14:23	5
Chromium	<0.0011	^	0.0025	0.0011	mg/L		03/24/17 08:38	03/27/17 14:23	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		03/24/17 08:38	03/27/17 14:23	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/24/17 08:38	03/27/17 14:23	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/24/17 08:38	03/27/17 14:23	5
Molybdenum	0.0025	J	0.015	0.00085	mg/L		03/24/17 08:38	03/27/17 14:23	5
Selenium	0.00045	J	0.0013	0.00024	mg/L		03/24/17 08:38	03/27/17 14:23	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/24/17 08:38	03/27/17 14:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:50	03/30/17 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/26/17 12:59	1
Chloride	<0.60		2.0	0.60	mg/L			03/31/17 09:33	1
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 17:11	1
Sulfate	2.3	J B	5.0	1.4	mg/L			03/31/17 09:26	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-1

Lab Sample ID: 400-135429-1

Date Collected: 03/20/17 16:18

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347015	03/23/17 17:22	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347817	03/30/17 15:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	346667	03/22/17 12:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347762	03/30/17 10:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 10:27	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347763	03/30/17 10:46	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 16:18	BWS	TAL PEN

Client Sample ID: MW-2

Lab Sample ID: 400-135429-2

Date Collected: 03/20/17 10:59

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347015	03/23/17 17:27	DRE	TAL PEN
Total/NA	Prep	7470A			347747	04/01/17 13:01	DN1	TAL PEN
Total/NA	Analysis	7470A		1	348263	04/03/17 13:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	346667	03/22/17 12:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347762	03/30/17 10:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 10:29	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347763	03/30/17 10:46	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 10:59	BWS	TAL PEN

Client Sample ID: MW-3

Lab Sample ID: 400-135429-3

Date Collected: 03/20/17 10:17

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347015	03/23/17 17:49	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	347263	03/27/17 12:21	DRE	TAL PEN
Total/NA	Prep	7470A			347747	04/01/17 13:01	DN1	TAL PEN
Total/NA	Analysis	7470A		1	348263	04/03/17 13:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	346667	03/22/17 12:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347762	03/30/17 10:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 10:37	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347763	03/30/17 10:46	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 10:17	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-4

Lab Sample ID: 400-135429-4

Date Collected: 03/20/17 13:04

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347015	03/23/17 17:54	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347810	03/30/17 10:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	346667	03/22/17 12:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347762	03/30/17 10:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 10:44	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347763	03/30/17 10:46	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 13:04	BWS	TAL PEN

Client Sample ID: MW-5

Lab Sample ID: 400-135429-5

Date Collected: 03/20/17 13:49

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347015	03/23/17 18:16	DRE	TAL PEN
Total/NA	Prep	7470A			347747	04/01/17 13:01	DN1	TAL PEN
Total/NA	Analysis	7470A		1	348263	04/03/17 13:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	346667	03/22/17 12:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347762	03/30/17 10:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 10:47	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347763	03/30/17 10:46	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 13:49	BWS	TAL PEN

Client Sample ID: MW-6

Lab Sample ID: 400-135429-6

Date Collected: 03/20/17 11:16

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347015	03/23/17 18:21	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347810	03/30/17 10:55	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	346667	03/22/17 12:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347925	03/31/17 09:33	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 10:50	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347922	03/31/17 09:26	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 11:16	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-7

Lab Sample ID: 400-135429-7

Date Collected: 03/20/17 08:54

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347015	03/23/17 18:25	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347810	03/30/17 11:56	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	346667	03/22/17 12:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347762	03/30/17 10:37	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 10:53	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347763	03/30/17 10:46	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 08:54	BWS	TAL PEN

Client Sample ID: MW-8

Lab Sample ID: 400-135429-8

Date Collected: 03/20/17 13:08

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347015	03/23/17 18:30	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347810	03/30/17 11:57	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	346667	03/22/17 12:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347762	03/30/17 11:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 10:56	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	348054	04/01/17 08:33	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 13:08	BWS	TAL PEN

Client Sample ID: MW-9

Lab Sample ID: 400-135429-9

Date Collected: 03/20/17 11:48

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346866	03/23/17 11:48	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347015	03/23/17 18:34	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347817	03/30/17 15:14	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	347166	03/26/17 13:42	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347762	03/30/17 11:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 10:59	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347922	03/31/17 09:26	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 11:48	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 03/20/17 14:55
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346980	03/24/17 08:38	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347398	03/27/17 13:21	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347810	03/30/17 12:00	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	347166	03/26/17 13:42	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347762	03/30/17 11:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	347930	03/31/17 11:02	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347922	03/31/17 09:26	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350180	03/20/17 14:55	BWS	TAL PEN

Client Sample ID: DUP-01
Date Collected: 03/20/17 00:00
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346980	03/24/17 08:38	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347398	03/27/17 13:44	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347810	03/30/17 12:01	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	347166	03/26/17 13:42	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347925	03/31/17 09:33	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	348007	03/31/17 17:06	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347922	03/31/17 09:26	BJB	TAL PEN

Client Sample ID: EB-01
Date Collected: 03/20/17 15:15
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346980	03/24/17 08:38	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347398	03/27/17 14:06	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347810	03/30/17 12:02	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	347165	03/26/17 12:59	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	347925	03/31/17 09:33	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	348007	03/31/17 17:08	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347922	03/31/17 09:26	BJB	TAL PEN

Lab Chronicle

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
 SDG: Gypsum

Client Sample ID: FB-01

Lab Sample ID: 400-135429-13

Date Collected: 03/20/17 15:10

Matrix: Water

Date Received: 03/21/17 10:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			346980	03/24/17 08:38	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	347398	03/27/17 14:23	DRE	TAL PEN
Total/NA	Prep	7470A			346850	03/23/17 10:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	347817	03/30/17 15:15	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	347165	03/26/17 12:59	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	347925	03/31/17 09:33	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	348007	03/31/17 17:11	CAC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	347922	03/31/17 09:26	BJB	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001



QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Metals

Prep Batch: 346850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total/NA	Water	7470A	
400-135429-4	MW-4	Total/NA	Water	7470A	
400-135429-6	MW-6	Total/NA	Water	7470A	
400-135429-7	MW-7	Total/NA	Water	7470A	
400-135429-8	MW-8	Total/NA	Water	7470A	
400-135429-9	MW-9	Total/NA	Water	7470A	
400-135429-10	MW-10	Total/NA	Water	7470A	
400-135429-11	DUP-01	Total/NA	Water	7470A	
400-135429-12	EB-01	Total/NA	Water	7470A	
400-135429-13	FB-01	Total/NA	Water	7470A	
MB 400-346850/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-346850/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-135429-1 MS	MW-1	Total/NA	Water	7470A	
400-135429-1 MSD	MW-1	Total/NA	Water	7470A	

Prep Batch: 346866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total Recoverable	Water	3005A	
400-135429-2	MW-2	Total Recoverable	Water	3005A	
400-135429-3 - RA	MW-3	Total Recoverable	Water	3005A	
400-135429-3	MW-3	Total Recoverable	Water	3005A	
400-135429-4	MW-4	Total Recoverable	Water	3005A	
400-135429-5	MW-5	Total Recoverable	Water	3005A	
400-135429-6	MW-6	Total Recoverable	Water	3005A	
400-135429-7	MW-7	Total Recoverable	Water	3005A	
400-135429-8	MW-8	Total Recoverable	Water	3005A	
400-135429-9	MW-9	Total Recoverable	Water	3005A	
MB 400-346866/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-346866/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-135429-2 MS	MW-2	Total Recoverable	Water	3005A	
400-135429-2 MSD	MW-2	Total Recoverable	Water	3005A	

Prep Batch: 346980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-10	MW-10	Total Recoverable	Water	3005A	
400-135429-11	DUP-01	Total Recoverable	Water	3005A	
400-135429-12	EB-01	Total Recoverable	Water	3005A	
400-135429-13	FB-01	Total Recoverable	Water	3005A	
MB 400-346980/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-346980/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-135429-10 MS	MW-10	Total Recoverable	Water	3005A	
400-135429-10 MSD	MW-10	Total Recoverable	Water	3005A	

Analysis Batch: 347015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total Recoverable	Water	6020	346866
400-135429-2	MW-2	Total Recoverable	Water	6020	346866
400-135429-3	MW-3	Total Recoverable	Water	6020	346866
400-135429-4	MW-4	Total Recoverable	Water	6020	346866
400-135429-5	MW-5	Total Recoverable	Water	6020	346866
400-135429-6	MW-6	Total Recoverable	Water	6020	346866

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Metals (Continued)

Analysis Batch: 347015 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-7	MW-7	Total Recoverable	Water	6020	346866
400-135429-8	MW-8	Total Recoverable	Water	6020	346866
400-135429-9	MW-9	Total Recoverable	Water	6020	346866
MB 400-346866/1-A ^5	Method Blank	Total Recoverable	Water	6020	346866
LCS 400-346866/2-A	Lab Control Sample	Total Recoverable	Water	6020	346866
400-135429-2 MS	MW-2	Total Recoverable	Water	6020	346866
400-135429-2 MSD	MW-2	Total Recoverable	Water	6020	346866

Analysis Batch: 347263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-3 - RA	MW-3	Total Recoverable	Water	6020	346866

Analysis Batch: 347398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-10	MW-10	Total Recoverable	Water	6020	346980
400-135429-11	DUP-01	Total Recoverable	Water	6020	346980
400-135429-12	EB-01	Total Recoverable	Water	6020	346980
400-135429-13	FB-01	Total Recoverable	Water	6020	346980
MB 400-346980/1-A ^5	Method Blank	Total Recoverable	Water	6020	346980
LCS 400-346980/2-A	Lab Control Sample	Total Recoverable	Water	6020	346980
400-135429-10 MS	MW-10	Total Recoverable	Water	6020	346980
400-135429-10 MSD	MW-10	Total Recoverable	Water	6020	346980

Prep Batch: 347747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-2	MW-2	Total/NA	Water	7470A	
400-135429-3	MW-3	Total/NA	Water	7470A	
400-135429-5	MW-5	Total/NA	Water	7470A	
MB 400-347747/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-347747/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-135669-C-21-B MS	Matrix Spike	Total/NA	Water	7470A	
400-135669-C-21-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 347810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-4	MW-4	Total/NA	Water	7470A	346850
400-135429-6	MW-6	Total/NA	Water	7470A	346850
400-135429-7	MW-7	Total/NA	Water	7470A	346850
400-135429-8	MW-8	Total/NA	Water	7470A	346850
400-135429-10	MW-10	Total/NA	Water	7470A	346850
400-135429-11	DUP-01	Total/NA	Water	7470A	346850
400-135429-12	EB-01	Total/NA	Water	7470A	346850
MB 400-346850/14-A	Method Blank	Total/NA	Water	7470A	346850
LCS 400-346850/15-A	Lab Control Sample	Total/NA	Water	7470A	346850

Analysis Batch: 347817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total/NA	Water	7470A	346850
400-135429-9	MW-9	Total/NA	Water	7470A	346850
400-135429-13	FB-01	Total/NA	Water	7470A	346850
400-135429-1 MS	MW-1	Total/NA	Water	7470A	346850

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
 SDG: Gypsum

Metals (Continued)

Analysis Batch: 347817 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1 MSD	MW-1	Total/NA	Water	7470A	346850

Analysis Batch: 348263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-2	MW-2	Total/NA	Water	7470A	347747
400-135429-3	MW-3	Total/NA	Water	7470A	347747
400-135429-5	MW-5	Total/NA	Water	7470A	347747
MB 400-347747/14-A	Method Blank	Total/NA	Water	7470A	347747
LCS 400-347747/15-A	Lab Control Sample	Total/NA	Water	7470A	347747
400-135669-C-21-B MS	Matrix Spike	Total/NA	Water	7470A	347747
400-135669-C-21-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	347747

General Chemistry

Analysis Batch: 346667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total/NA	Water	SM 2540C	
400-135429-2	MW-2	Total/NA	Water	SM 2540C	
400-135429-3	MW-3	Total/NA	Water	SM 2540C	
400-135429-4	MW-4	Total/NA	Water	SM 2540C	
400-135429-5	MW-5	Total/NA	Water	SM 2540C	
400-135429-6	MW-6	Total/NA	Water	SM 2540C	
400-135429-7	MW-7	Total/NA	Water	SM 2540C	
400-135429-8	MW-8	Total/NA	Water	SM 2540C	
MB 400-346667/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-346667/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-135411-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 347165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-12	EB-01	Total/NA	Water	SM 2540C	
400-135429-13	FB-01	Total/NA	Water	SM 2540C	
MB 400-347165/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-347165/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-135448-E-11 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 347166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-9	MW-9	Total/NA	Water	SM 2540C	
400-135429-10	MW-10	Total/NA	Water	SM 2540C	
400-135429-11	DUP-01	Total/NA	Water	SM 2540C	
MB 400-347166/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-347166/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-135448-E-3 DU	Duplicate	Total/NA	Water	SM 2540C	
400-135466-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 347762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total/NA	Water	SM 4500 CI- E	
400-135429-2	MW-2	Total/NA	Water	SM 4500 CI- E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
 SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 347762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-3	MW-3	Total/NA	Water	SM 4500 Cl- E	
400-135429-4	MW-4	Total/NA	Water	SM 4500 Cl- E	
400-135429-5	MW-5	Total/NA	Water	SM 4500 Cl- E	
400-135429-7	MW-7	Total/NA	Water	SM 4500 Cl- E	
400-135429-8	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-135429-9	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-135429-10	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 400-347762/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-347762/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-347762/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-135429-5 MS	MW-5	Total/NA	Water	SM 4500 Cl- E	
400-135429-5 MSD	MW-5	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 347763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-135429-2	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-135429-3	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-135429-4	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-135429-5	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-135429-7	MW-7	Total/NA	Water	SM 4500 SO4 E	
MB 400-347763/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-347763/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-347763/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-135429-5 MS	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-135429-5 MSD	MW-5	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 347922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-6	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-135429-9	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-135429-10	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-135429-11	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-135429-12	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-135429-13	FB-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-347922/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-347922/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-347922/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-135429-11 MS	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-135429-11 MSD	DUP-01	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 347925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-6	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-135429-11	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-135429-12	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-135429-13	FB-01	Total/NA	Water	SM 4500 Cl- E	
MB 400-347925/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-347925/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-347925/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-135429-11 MS	DUP-01	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
 SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 347925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-11 MSD	DUP-01	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 347930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total/NA	Water	SM 4500 F C	
400-135429-2	MW-2	Total/NA	Water	SM 4500 F C	
400-135429-3	MW-3	Total/NA	Water	SM 4500 F C	
400-135429-4	MW-4	Total/NA	Water	SM 4500 F C	
400-135429-5	MW-5	Total/NA	Water	SM 4500 F C	
400-135429-6	MW-6	Total/NA	Water	SM 4500 F C	
400-135429-7	MW-7	Total/NA	Water	SM 4500 F C	
400-135429-8	MW-8	Total/NA	Water	SM 4500 F C	
400-135429-9	MW-9	Total/NA	Water	SM 4500 F C	
400-135429-10	MW-10	Total/NA	Water	SM 4500 F C	
MB 400-347930/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-347930/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
660-79619-E-4 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
660-79619-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-135429-3 DU	MW-3	Total/NA	Water	SM 4500 F C	

Analysis Batch: 348007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-11	DUP-01	Total/NA	Water	SM 4500 F C	
400-135429-12	EB-01	Total/NA	Water	SM 4500 F C	
400-135429-13	FB-01	Total/NA	Water	SM 4500 F C	
MB 400-348007/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-348007/27	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 400-348007/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 348054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-8	MW-8	Total/NA	Water	SM 4500 SO4 E	
MB 400-348054/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-348054/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-348054/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-135676-A-7 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-135676-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Field Service / Mobile Lab

Analysis Batch: 350180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total/NA	Water	Field Sampling	
400-135429-2	MW-2	Total/NA	Water	Field Sampling	
400-135429-3	MW-3	Total/NA	Water	Field Sampling	
400-135429-4	MW-4	Total/NA	Water	Field Sampling	
400-135429-5	MW-5	Total/NA	Water	Field Sampling	
400-135429-6	MW-6	Total/NA	Water	Field Sampling	
400-135429-7	MW-7	Total/NA	Water	Field Sampling	
400-135429-8	MW-8	Total/NA	Water	Field Sampling	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Field Service / Mobile Lab (Continued)

Analysis Batch: 350180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-9	MW-9	Total/NA	Water	Field Sampling	
400-135429-10	MW-10	Total/NA	Water	Field Sampling	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-346866/1-A ^5
Matrix: Water
Analysis Batch: 347015

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 346866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		03/23/17 11:48	03/23/17 17:13	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/23/17 11:48	03/23/17 17:13	5
Barium	<0.00049		0.0025	0.00049	mg/L		03/23/17 11:48	03/23/17 17:13	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:13	5
Boron	<0.021		0.050	0.021	mg/L		03/23/17 11:48	03/23/17 17:13	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/23/17 11:48	03/23/17 17:13	5
Calcium	<0.13		0.25	0.13	mg/L		03/23/17 11:48	03/23/17 17:13	5
Chromium	<0.0011		0.0025	0.0011	mg/L		03/23/17 11:48	03/23/17 17:13	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		03/23/17 11:48	03/23/17 17:13	5
Lead	<0.00035	^	0.0013	0.00035	mg/L		03/23/17 11:48	03/23/17 17:13	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/23/17 11:48	03/23/17 17:13	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/23/17 11:48	03/23/17 17:13	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/23/17 11:48	03/23/17 17:13	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/23/17 11:48	03/23/17 17:13	5

Lab Sample ID: LCS 400-346866/2-A
Matrix: Water
Analysis Batch: 347015

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 346866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0547		mg/L		109	80 - 120
Arsenic	0.0500	0.0508		mg/L		102	80 - 120
Barium	0.0500	0.0512		mg/L		102	80 - 120
Beryllium	0.0500	0.0513		mg/L		103	80 - 120
Boron	0.100	0.0949		mg/L		95	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	5.00	4.94		mg/L		99	80 - 120
Chromium	0.0500	0.0504		mg/L		101	80 - 120
Cobalt	0.0500	0.0468		mg/L		94	80 - 120
Lead	0.0500	0.0596	^	mg/L		119	80 - 120
Lithium	0.0500	0.0539		mg/L		108	80 - 120
Molybdenum	0.100	0.0995		mg/L		100	80 - 120
Selenium	0.0500	0.0506		mg/L		101	80 - 120
Thallium	0.0100	0.0106		mg/L		106	80 - 120

Lab Sample ID: 400-135429-2 MS
Matrix: Water
Analysis Batch: 347015

Client Sample ID: MW-2
Prep Type: Total Recoverable
Prep Batch: 346866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010		0.0500	0.0590		mg/L		118	75 - 125
Arsenic	<0.00046		0.0500	0.0528		mg/L		106	75 - 125
Barium	0.053		0.0500	0.104		mg/L		102	75 - 125
Beryllium	<0.00034		0.0500	0.0516		mg/L		103	75 - 125
Boron	<0.021		0.100	0.110		mg/L		110	75 - 125
Cadmium	<0.00034		0.0500	0.0532		mg/L		106	75 - 125
Calcium	0.96		5.00	6.00		mg/L		101	75 - 125
Chromium	<0.0011	F1 F2	0.0500	0.0513		mg/L		103	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-135429-2 MS
Matrix: Water
Analysis Batch: 347015

Client Sample ID: MW-2
Prep Type: Total Recoverable
Prep Batch: 346866

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits
Cobalt	0.00094	J	0.0500	0.0548		mg/L		108	75 - 125	
Lead	<0.00035	^	0.0500	0.0535	^	mg/L		107	75 - 125	
Lithium	<0.0032		0.0500	0.0533		mg/L		107	75 - 125	
Molybdenum	<0.00085		0.100	0.105		mg/L		105	75 - 125	
Selenium	<0.00024		0.0500	0.0548		mg/L		110	75 - 125	
Thallium	<0.000085		0.0100	0.0106		mg/L		106	75 - 125	

Lab Sample ID: 400-135429-2 MSD
Matrix: Water
Analysis Batch: 347015

Client Sample ID: MW-2
Prep Type: Total Recoverable
Prep Batch: 346866

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0573		mg/L		115	75 - 125	3	20	
Arsenic	<0.00046		0.0500	0.0524		mg/L		105	75 - 125	1	20	
Barium	0.053		0.0500	0.104		mg/L		102	75 - 125	0	20	
Beryllium	<0.00034		0.0500	0.0525		mg/L		105	75 - 125	2	20	
Boron	<0.021		0.100	0.108		mg/L		108	75 - 125	1	20	
Cadmium	<0.00034		0.0500	0.0524		mg/L		105	75 - 125	1	20	
Calcium	0.96		5.00	5.92		mg/L		99	75 - 125	1	20	
Chromium	<0.0011	F1 F2	0.0500	0.125	F1 F2	mg/L		250	75 - 125	84	20	
Cobalt	0.00094	J	0.0500	0.0540		mg/L		106	75 - 125	1	20	
Lead	<0.00035	^	0.0500	0.0540	^	mg/L		108	75 - 125	1	20	
Lithium	<0.0032		0.0500	0.0539		mg/L		108	75 - 125	1	20	
Molybdenum	<0.00085		0.100	0.103		mg/L		103	75 - 125	1	20	
Selenium	<0.00024		0.0500	0.0522		mg/L		104	75 - 125	5	20	
Thallium	<0.000085		0.0100	0.0106		mg/L		106	75 - 125	1	20	

Lab Sample ID: MB 400-346980/1-A ^5
Matrix: Water
Analysis Batch: 347398

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 346980

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0010		0.0025	0.0010	mg/L		03/24/17 08:38	03/27/17 13:12	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		03/24/17 08:38	03/27/17 13:12	5
Barium	<0.00049		0.0025	0.00049	mg/L		03/24/17 08:38	03/27/17 13:12	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 13:12	5
Boron	<0.021		0.050	0.021	mg/L		03/24/17 08:38	03/27/17 13:12	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		03/24/17 08:38	03/27/17 13:12	5
Calcium	<0.13		0.25	0.13	mg/L		03/24/17 08:38	03/27/17 13:12	5
Chromium	<0.0011	^	0.0025	0.0011	mg/L		03/24/17 08:38	03/27/17 13:12	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		03/24/17 08:38	03/27/17 13:12	5
Lead	<0.00035		0.0013	0.00035	mg/L		03/24/17 08:38	03/27/17 13:12	5
Lithium	<0.0032		0.0050	0.0032	mg/L		03/24/17 08:38	03/27/17 13:12	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		03/24/17 08:38	03/27/17 13:12	5
Selenium	<0.00024		0.0013	0.00024	mg/L		03/24/17 08:38	03/27/17 13:12	5
Thallium	<0.000085		0.00050	0.000085	mg/L		03/24/17 08:38	03/27/17 13:12	5

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 400-346980/2-A
Matrix: Water
Analysis Batch: 347398

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 346980

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0530		mg/L		106	80 - 120
Arsenic	0.0500	0.0484		mg/L		97	80 - 120
Barium	0.0500	0.0492		mg/L		98	80 - 120
Beryllium	0.0500	0.0475		mg/L		95	80 - 120
Boron	0.100	0.0948		mg/L		95	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Calcium	5.00	4.52		mg/L		90	80 - 120
Chromium	0.0500	0.0481	^	mg/L		96	80 - 120
Cobalt	0.0500	0.0477		mg/L		95	80 - 120
Lead	0.0500	0.0478		mg/L		96	80 - 120
Lithium	0.0500	0.0491		mg/L		98	80 - 120
Molybdenum	0.100	0.0978		mg/L		98	80 - 120
Selenium	0.0500	0.0481		mg/L		96	80 - 120
Thallium	0.0100	0.00991		mg/L		99	80 - 120

Lab Sample ID: 400-135429-10 MS
Matrix: Water
Analysis Batch: 347398

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 346980

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0010		0.0500	0.0563		mg/L		113	75 - 125
Arsenic	<0.00046		0.0500	0.0514		mg/L		103	75 - 125
Barium	0.026		0.0500	0.0749		mg/L		98	75 - 125
Beryllium	<0.00034		0.0500	0.0469		mg/L		94	75 - 125
Boron	<0.021		0.100	0.117		mg/L		117	75 - 125
Cadmium	<0.00034		0.0500	0.0498		mg/L		100	75 - 125
Calcium	0.66		5.00	5.35		mg/L		94	75 - 125
Chromium	<0.0011	^	0.0500	0.0484	^	mg/L		97	75 - 125
Cobalt	0.00064	J	0.0500	0.0519		mg/L		102	75 - 125
Lead	<0.00035		0.0500	0.0433		mg/L		87	75 - 125
Lithium	<0.0032		0.0500	0.0473		mg/L		95	75 - 125
Molybdenum	0.0051	J	0.100	0.106		mg/L		101	75 - 125
Selenium	0.0027		0.0500	0.0547		mg/L		104	75 - 125
Thallium	<0.000085		0.0100	0.00979		mg/L		98	75 - 125

Lab Sample ID: 400-135429-10 MSD
Matrix: Water
Analysis Batch: 347398

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 346980

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	<0.0010		0.0500	0.0529		mg/L		106	75 - 125	6	20
Arsenic	<0.00046		0.0500	0.0498		mg/L		100	75 - 125	3	20
Barium	0.026		0.0500	0.0746		mg/L		98	75 - 125	0	20
Beryllium	<0.00034		0.0500	0.0483		mg/L		97	75 - 125	3	20
Boron	<0.021		0.100	0.120		mg/L		120	75 - 125	3	20
Cadmium	<0.00034		0.0500	0.0499		mg/L		100	75 - 125	0	20
Calcium	0.66		5.00	5.23		mg/L		91	75 - 125	2	20
Chromium	<0.0011	^	0.0500	0.0483	^	mg/L		97	75 - 125	0	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-135429-10 MSD

Matrix: Water

Analysis Batch: 347398

Client Sample ID: MW-10

Prep Type: Total Recoverable

Prep Batch: 346980

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Cobalt	0.00064	J	0.0500	0.0527		mg/L		104	75 - 125	2	20
Lead	<0.00035		0.0500	0.0435		mg/L		87	75 - 125	0	20
Lithium	<0.0032		0.0500	0.0481		mg/L		96	75 - 125	2	20
Molybdenum	0.0051	J	0.100	0.0987		mg/L		94	75 - 125	8	20
Selenium	0.0027		0.0500	0.0502		mg/L		95	75 - 125	9	20
Thallium	<0.000085		0.0100	0.00993		mg/L		99	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-346850/14-A

Matrix: Water

Analysis Batch: 347810

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 346850

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000070		0.00020	0.000070	mg/L		03/23/17 10:49	03/30/17 10:27	1

Lab Sample ID: LCS 400-346850/15-A

Matrix: Water

Analysis Batch: 347810

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 346850

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Mercury	0.00101	0.00107		mg/L		106	80 - 120

Lab Sample ID: 400-135429-1 MS

Matrix: Water

Analysis Batch: 347817

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 346850

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	<0.000070		0.00201	0.00197		mg/L		98	80 - 120

Lab Sample ID: 400-135429-1 MSD

Matrix: Water

Analysis Batch: 347817

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Batch: 346850

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	<0.000070		0.00201	0.00187		mg/L		93	80 - 120	5	20

Lab Sample ID: MB 400-347747/14-A

Matrix: Water

Analysis Batch: 348263

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 347747

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000070		0.00020	0.000070	mg/L		04/01/17 13:01	04/03/17 11:56	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 400-347747/15-A
Matrix: Water
Analysis Batch: 348263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 347747

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000991		mg/L		98	80 - 120

Lab Sample ID: 400-135669-C-21-B MS
Matrix: Water
Analysis Batch: 348263

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 347747

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.000070		0.00201	0.00185		mg/L		92	80 - 120

Lab Sample ID: 400-135669-C-21-C MSD
Matrix: Water
Analysis Batch: 348263

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 347747

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.000070		0.00201	0.00187		mg/L		93	80 - 120	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-346667/1
Matrix: Water
Analysis Batch: 346667

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/22/17 12:52	1

Lab Sample ID: LCS 400-346667/2
Matrix: Water
Analysis Batch: 346667

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	260		mg/L		89	78 - 122

Lab Sample ID: 400-135411-A-3 DU
Matrix: Water
Analysis Batch: 346667

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	560		558		mg/L		0.7	5

Lab Sample ID: MB 400-347165/1
Matrix: Water
Analysis Batch: 347165

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/26/17 12:59	1

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 400-347165/2

Matrix: Water

Analysis Batch: 347165

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	240		mg/L		82	78 - 122

Lab Sample ID: 400-135448-E-11 DU

Matrix: Water

Analysis Batch: 347165

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	480		480		mg/L		0	5

Lab Sample ID: MB 400-347166/1

Matrix: Water

Analysis Batch: 347166

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			03/26/17 13:42	1

Lab Sample ID: LCS 400-347166/2

Matrix: Water

Analysis Batch: 347166

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	254		mg/L		87	78 - 122

Lab Sample ID: 400-135448-E-3 DU

Matrix: Water

Analysis Batch: 347166

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	430		432		mg/L		0	5

Lab Sample ID: 400-135466-A-1 DU

Matrix: Water

Analysis Batch: 347166

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	780		786		mg/L		0.3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-347762/6

Matrix: Water

Analysis Batch: 347762

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			03/30/17 08:51	1

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 400-347762/7
Matrix: Water
Analysis Batch: 347762

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.5		mg/L		102	90 - 110

Lab Sample ID: MRL 400-347762/3
Matrix: Water
Analysis Batch: 347762

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	2.13		mg/L		107	50 - 150

Lab Sample ID: 400-135429-5 MS
Matrix: Water
Analysis Batch: 347762

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.6		10.0	19.8		mg/L		102	73 - 120

Lab Sample ID: 400-135429-5 MSD
Matrix: Water
Analysis Batch: 347762

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	9.6		10.0	19.6		mg/L		100	73 - 120	1	8

Lab Sample ID: MB 400-347925/6
Matrix: Water
Analysis Batch: 347925

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			03/31/17 08:26	1

Lab Sample ID: LCS 400-347925/7
Matrix: Water
Analysis Batch: 347925

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.2		mg/L		104	90 - 110

Lab Sample ID: MRL 400-347925/3
Matrix: Water
Analysis Batch: 347925

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.81	J	mg/L		90	50 - 150

Lab Sample ID: 400-135429-11 MS
Matrix: Water
Analysis Batch: 347925

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15		10.0	25.5		mg/L		101	73 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Lab Sample ID: 400-135429-11 MSD
Matrix: Water
Analysis Batch: 347925

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15		10.0	25.3		mg/L		99	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-347930/3
Matrix: Water
Analysis Batch: 347930

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 09:58	1

Lab Sample ID: LCS 400-347930/4
Matrix: Water
Analysis Batch: 347930

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.13		mg/L		103	90 - 110

Lab Sample ID: 660-79619-E-4 MS
Matrix: Water
Analysis Batch: 347930

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.11		1.00	1.12		mg/L		101	75 - 125

Lab Sample ID: 660-79619-E-4 MSD
Matrix: Water
Analysis Batch: 347930

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.11		1.00	1.17		mg/L		106	75 - 125	4	4

Lab Sample ID: 400-135429-3 DU
Matrix: Water
Analysis Batch: 347930

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	<0.032		<0.032		mg/L		NC	4

Lab Sample ID: MB 400-348007/3
Matrix: Water
Analysis Batch: 348007

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			03/31/17 16:43	1

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-348007/27
Matrix: Water
Analysis Batch: 348007

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.98		mg/L		100	90 - 110

Lab Sample ID: LCS 400-348007/4
Matrix: Water
Analysis Batch: 348007

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	4.05		mg/L		101	90 - 110

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-347763/6
Matrix: Water
Analysis Batch: 347763

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			03/30/17 08:53	1

Lab Sample ID: LCS 400-347763/7
Matrix: Water
Analysis Batch: 347763

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.2		mg/L		95	90 - 110

Lab Sample ID: MRL 400-347763/3
Matrix: Water
Analysis Batch: 347763

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.99	J	mg/L		100	50 - 150

Lab Sample ID: 400-135429-5 MS
Matrix: Water
Analysis Batch: 347763

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2.5	J	10.0	10.7		mg/L		82	77 - 128

Lab Sample ID: 400-135429-5 MSD
Matrix: Water
Analysis Batch: 347763

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	2.5	J	10.0	10.8		mg/L		84	77 - 128	1	5

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
SDG: Gypsum

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: MB 400-347922/6
Matrix: Water
Analysis Batch: 347922

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	2.54	J	5.0	1.4	mg/L			03/31/17 08:56	1

Lab Sample ID: LCS 400-347922/7
Matrix: Water
Analysis Batch: 347922

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.8		mg/L		105	90 - 110

Lab Sample ID: MRL 400-347922/3
Matrix: Water
Analysis Batch: 347922

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	6.41		mg/L		128	50 - 150

Lab Sample ID: 400-135429-11 MS
Matrix: Water
Analysis Batch: 347922

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2.4	J B	10.0	10.5		mg/L		81	77 - 128

Lab Sample ID: 400-135429-11 MSD
Matrix: Water
Analysis Batch: 347922

Client Sample ID: DUP-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	2.4	J B	10.0	10.5		mg/L		81	77 - 128	0	5

Lab Sample ID: MB 400-348054/6
Matrix: Water
Analysis Batch: 348054

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.52	J	5.0	1.4	mg/L			04/01/17 07:44	1

Lab Sample ID: LCS 400-348054/7
Matrix: Water
Analysis Batch: 348054

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.8		mg/L		105	90 - 110

Lab Sample ID: MRL 400-348054/3
Matrix: Water
Analysis Batch: 348054

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	6.00		mg/L		120	50 - 150

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
 SDG: Gypsum

Lab Sample ID: 400-135676-A-7 MS
Matrix: Water
Analysis Batch: 348054

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15	B	10.0	26.1		mg/L		108	77 - 128

Lab Sample ID: 400-135676-A-7 MSD
Matrix: Water
Analysis Batch: 348054

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	15	B	10.0	26.2		mg/L		110	77 - 128	0	5

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Chain of Custody Record

Client Information
 Client Contact: Mr. Gale Sellers
 Company: Southern Company
 Address: PO BOX 2641 GSC8
 City: Birmingham
 State, Zip: AL, 35291
 Phone: 205-992-7762(Tel)
 Email: CBSELLER@SOUTHERNCO.COM
 Project Name: CCR -Plant Daniel
 Site: Gypsum

Sample Information
 Sampler: Rick Heyndorfer / RCH
 Lab PM: Whitmire, Cheyenne R
 Phone: 850-336-0192
 E-Mail: cheyenne.whitmire@testamericainc.com

COC No: 400-55446-23825.1
 Page:
 Job #:
 Carrier Tracking No(s):
 Analysis Requested:
 Preservation: M - Hexane, N - None, O - AsNaO2, P - Na2OAS, Q - Na2SO3, R - Na2SO4, S - H2SO4, T - TSP, U - Dodecahydrate, V - Acetone, W - MCAA, X - ph 4-5, Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Other)	Field Filtered Sample (Yes or No)	Field Sampling Parameters	Total Number of Containers	Special Instructions/Remarks
MW-1	3-20-17	1618	G	Water		SM4500, Cl, E - Chloride, SM4500, SO4, E - Sulfate, 2540C - 9315 Ra226, 9320 Ra228, Ra226Ra228, GFC	3	
MW-2		1059		Water		Mercury		
MW-3		1017		Water		0020 - Sb, As, Ba, Be, B, Bi, Br, Cd, Cr, Co, Pb, Li, Mn, Se, Ti, Tl, 7470A -		
MW-4		1304		Water				
MW-5		1349		Water				
MW-6		1116		Water				
MW-7		0854		Water				
MW-8		1308		Water				
MW-9		1148		Water				
MW-10		1455		Water				

Disposal
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/IOC Requirements: IV QC
 Method of Shipment:
 Received by: [Signature] Company: PWH
 Date/Time: 3-20-17 1700
 Relinquished by: [Signature] Company: EDH
 Date/Time: 3/21/17 1026
 Relinquished by: [Signature] Company:
 Date/Time:
 Cooler Temperature(s) °C and Other Remarks: 0.0°C, 0.0°C, 0.0°C IRZ

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-135429-1

SDG Number: Gypsum

Login Number: 135429

List Source: TestAmerica Pensacola

List Number: 1

Creator: Hughes, Nicholas T

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 0.0°C, 0.0°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-1
 SDG: Gypsum

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-135429-2

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

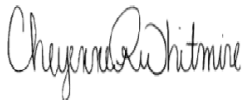
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

4/19/2017 3:06:07 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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



Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-135429-1	MW-1	Water	03/20/17 16:18	03/21/17 10:26
400-135429-2	MW-2	Water	03/20/17 10:59	03/21/17 10:26
400-135429-3	MW-3	Water	03/20/17 10:17	03/21/17 10:26
400-135429-4	MW-4	Water	03/20/17 13:04	03/21/17 10:26
400-135429-5	MW-5	Water	03/20/17 13:49	03/21/17 10:26
400-135429-6	MW-6	Water	03/20/17 11:16	03/21/17 10:26
400-135429-7	MW-7	Water	03/20/17 08:54	03/21/17 10:26
400-135429-8	MW-8	Water	03/20/17 13:08	03/21/17 10:26
400-135429-9	MW-9	Water	03/20/17 11:48	03/21/17 10:26
400-135429-10	MW-10	Water	03/20/17 14:55	03/21/17 10:26
400-135429-11	DUP-01	Water	03/20/17 00:00	03/21/17 10:26
400-135429-12	EB-01	Water	03/20/17 15:15	03/21/17 10:26
400-135429-13	FB-01	Water	03/20/17 15:10	03/21/17 10:26

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 03/20/17 16:18
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-1
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	1.34		0.214	0.246	1.00	0.109	pCi/L	03/28/17 09:19	04/19/17 06:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					03/28/17 09:19	04/19/17 06:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.52		0.327	0.356	1.00	0.374	pCi/L	03/28/17 10:11	04/12/17 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					03/28/17 10:11	04/12/17 11:22	1
Y Carrier	90.1		40 - 110					03/28/17 10:11	04/12/17 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	2.85		0.391	0.432	5.00	0.374	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 03/20/17 10:59
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-2
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	0.354		0.117	0.121	1.00	0.0998	pCi/L	03/28/17 09:19	04/19/17 06:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					03/28/17 09:19	04/19/17 06:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.350	U	0.262	0.264	1.00	0.412	pCi/L	03/28/17 10:11	04/12/17 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					03/28/17 10:11	04/12/17 11:22	1
Y Carrier	84.9		40 - 110					03/28/17 10:11	04/12/17 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	0.704		0.287	0.291	5.00	0.412	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
 SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 03/20/17 10:17
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-3
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	0.776		0.173	0.187	1.00	0.123	pCi/L	03/28/17 09:19	04/19/17 06:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					03/28/17 09:19	04/19/17 06:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.10		0.331	0.346	1.00	0.443	pCi/L	03/28/17 10:11	04/12/17 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					03/28/17 10:11	04/12/17 11:22	1
Y Carrier	89.0		40 - 110					03/28/17 10:11	04/12/17 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	1.87		0.374	0.394	5.00	0.443	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 03/20/17 13:04
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-4
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	0.413		0.132	0.137	1.00	0.110	pCi/L	03/28/17 09:19	04/19/17 06:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					03/28/17 09:19	04/19/17 06:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.627		0.288	0.294	1.00	0.414	pCi/L	03/28/17 10:11	04/12/17 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.5		40 - 110					03/28/17 10:11	04/12/17 11:22	1
Y Carrier	87.1		40 - 110					03/28/17 10:11	04/12/17 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	1.04		0.317	0.324	5.00	0.414	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 03/20/17 13:49
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-5
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	0.553		0.151	0.159	1.00	0.127	pCi/L	03/28/17 09:19	04/19/17 06:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/28/17 09:19	04/19/17 06:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.637		0.281	0.287	1.00	0.401	pCi/L	03/28/17 10:11	04/12/17 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.0		40 - 110					03/28/17 10:11	04/12/17 11:22	1
Y Carrier	87.1		40 - 110					03/28/17 10:11	04/12/17 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	1.19		0.319	0.328	5.00	0.401	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 03/20/17 11:16
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-6
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	0.409		0.130	0.135	1.00	0.121	pCi/L	03/28/17 09:19	04/19/17 06:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					03/28/17 09:19	04/19/17 06:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.435		0.271	0.274	1.00	0.417	pCi/L	03/28/17 10:11	04/12/17 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					03/28/17 10:11	04/12/17 11:22	1
Y Carrier	86.0		40 - 110					03/28/17 10:11	04/12/17 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	0.843		0.301	0.306	5.00	0.417	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 03/20/17 08:54
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-7
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	0.974		0.185	0.205	1.00	0.115	pCi/L	03/28/17 09:19	04/19/17 06:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					03/28/17 09:19	04/19/17 06:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.37		0.314	0.338	1.00	0.367	pCi/L	03/28/17 10:11	04/12/17 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					03/28/17 10:11	04/12/17 11:23	1
Y Carrier	88.2		40 - 110					03/28/17 10:11	04/12/17 11:23	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	2.34		0.365	0.396	5.00	0.367	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 03/20/17 13:08
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-8
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	0.684		0.161	0.172	1.00	0.114	pCi/L	03/28/17 09:19	04/19/17 06:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					03/28/17 09:19	04/19/17 06:08	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.08		0.289	0.305	1.00	0.345	pCi/L	03/28/17 10:11	04/12/17 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					03/28/17 10:11	04/12/17 11:23	1
Y Carrier	89.0		40 - 110					03/28/17 10:11	04/12/17 11:23	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	1.76		0.330	0.350	5.00	0.345	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 03/20/17 11:48
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-9
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	0.199		0.0968	0.0984	1.00	0.111	pCi/L	03/28/17 09:19	04/19/17 06:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					03/28/17 09:19	04/19/17 06:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.221	U	0.226	0.227	1.00	0.368	pCi/L	03/28/17 10:11	04/12/17 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					03/28/17 10:11	04/12/17 11:23	1
Y Carrier	86.4		40 - 110					03/28/17 10:11	04/12/17 11:23	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	0.420		0.246	0.248	5.00	0.368	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 03/20/17 14:55
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-10
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	0.0795	U	0.0737	0.0741	1.00	0.111	pCi/L	03/28/17 09:19	04/19/17 06:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					03/28/17 09:19	04/19/17 06:09	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.142	U	0.237	0.238	1.00	0.402	pCi/L	03/28/17 10:11	04/12/17 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					03/28/17 10:11	04/12/17 11:23	1
Y Carrier	84.9		40 - 110					03/28/17 10:11	04/12/17 11:23	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	0.248	0.249	5.00	0.402	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
 SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 03/20/17 00:00
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-11
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	0.955		0.179	0.199	1.00	0.0969	pCi/L	03/28/17 09:19	04/19/17 06:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					03/28/17 09:19	04/19/17 06:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.973		0.311	0.323	1.00	0.412	pCi/L	03/28/17 10:11	04/12/17 11:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					03/28/17 10:11	04/12/17 11:28	1
Y Carrier	86.4		40 - 110					03/28/17 10:11	04/12/17 11:28	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.93		0.359	0.379	5.00	0.412	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 03/20/17 15:15
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-12
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	-0.00534	U	0.0454	0.0454	1.00	0.100	pCi/L	03/28/17 09:19	04/19/17 06:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					03/28/17 09:19	04/19/17 06:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.205	U	0.195	0.196	1.00	0.385	pCi/L	03/28/17 10:11	04/12/17 11:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					03/28/17 10:11	04/12/17 11:29	1
Y Carrier	88.6		40 - 110					03/28/17 10:11	04/12/17 11:29	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	-0.210	U	0.200	0.201	5.00	0.385	pCi/L		04/19/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 03/20/17 15:10
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-13
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	0.0428	U	0.0643	0.0645	1.00	0.110	pCi/L	03/28/17 09:19	04/19/17 06:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					03/28/17 09:19	04/19/17 06:10	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0870	U	0.211	0.211	1.00	0.365	pCi/L	03/28/17 10:11	04/12/17 11:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					03/28/17 10:11	04/12/17 11:29	1
Y Carrier	86.7		40 - 110					03/28/17 10:11	04/12/17 11:29	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	0.130	U	0.221	0.221	5.00	0.365	pCi/L		04/19/17 13:35	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 03/20/17 16:18
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:08	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:22	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Client Sample ID: MW-2
Date Collected: 03/20/17 10:59
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:08	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:22	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Client Sample ID: MW-3
Date Collected: 03/20/17 10:17
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:08	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:22	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Client Sample ID: MW-4
Date Collected: 03/20/17 13:04
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:08	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:22	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 03/20/17 13:49
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:08	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:22	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Client Sample ID: MW-6
Date Collected: 03/20/17 11:16
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:08	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:22	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Client Sample ID: MW-7
Date Collected: 03/20/17 08:54
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:08	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:23	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Client Sample ID: MW-8
Date Collected: 03/20/17 13:08
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:08	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:23	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 03/20/17 11:48
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:09	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:23	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Client Sample ID: MW-10
Date Collected: 03/20/17 14:55
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304195	04/19/17 06:09	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303158	04/12/17 11:23	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Client Sample ID: DUP-01
Date Collected: 03/20/17 00:00
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304193	04/19/17 06:10	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303160	04/12/17 11:28	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Client Sample ID: EB-01
Date Collected: 03/20/17 15:15
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304193	04/19/17 06:10	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303160	04/12/17 11:29	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Client Sample ID: FB-01
Date Collected: 03/20/17 15:10
Date Received: 03/21/17 10:26

Lab Sample ID: 400-135429-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			300386	03/28/17 09:19	LDE	TAL SL
Total/NA	Analysis	9315		1	304193	04/19/17 06:10	ALD	TAL SL
Total/NA	Prep	PrecSep_0			300401	03/28/17 10:11	LDE	TAL SL
Total/NA	Analysis	9320		1	303160	04/12/17 11:29	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	304336	04/19/17 13:35	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Rad

Prep Batch: 300386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total/NA	Water	PrecSep-21	
400-135429-2	MW-2	Total/NA	Water	PrecSep-21	
400-135429-3	MW-3	Total/NA	Water	PrecSep-21	
400-135429-4	MW-4	Total/NA	Water	PrecSep-21	
400-135429-5	MW-5	Total/NA	Water	PrecSep-21	
400-135429-6	MW-6	Total/NA	Water	PrecSep-21	
400-135429-7	MW-7	Total/NA	Water	PrecSep-21	
400-135429-8	MW-8	Total/NA	Water	PrecSep-21	
400-135429-9	MW-9	Total/NA	Water	PrecSep-21	
400-135429-10	MW-10	Total/NA	Water	PrecSep-21	
400-135429-11	DUP-01	Total/NA	Water	PrecSep-21	
400-135429-12	EB-01	Total/NA	Water	PrecSep-21	
400-135429-13	FB-01	Total/NA	Water	PrecSep-21	
MB 160-300386/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-300386/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
160-21515-G-9-C MS	Matrix Spike	Dissolved	Water	PrecSep-21	
160-21515-H-9-A MSD	Matrix Spike Duplicate	Dissolved	Water	PrecSep-21	

Prep Batch: 300401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135429-1	MW-1	Total/NA	Water	PrecSep_0	
400-135429-2	MW-2	Total/NA	Water	PrecSep_0	
400-135429-3	MW-3	Total/NA	Water	PrecSep_0	
400-135429-4	MW-4	Total/NA	Water	PrecSep_0	
400-135429-5	MW-5	Total/NA	Water	PrecSep_0	
400-135429-6	MW-6	Total/NA	Water	PrecSep_0	
400-135429-7	MW-7	Total/NA	Water	PrecSep_0	
400-135429-8	MW-8	Total/NA	Water	PrecSep_0	
400-135429-9	MW-9	Total/NA	Water	PrecSep_0	
400-135429-10	MW-10	Total/NA	Water	PrecSep_0	
400-135429-11	DUP-01	Total/NA	Water	PrecSep_0	
400-135429-12	EB-01	Total/NA	Water	PrecSep_0	
400-135429-13	FB-01	Total/NA	Water	PrecSep_0	
MB 160-300401/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-300401/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
160-21515-G-9-D MS	Matrix Spike	Dissolved	Water	PrecSep_0	
160-21515-H-9-B MSD	Matrix Spike Duplicate	Dissolved	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-300386/1-A
Matrix: Water
Analysis Batch: 304195

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300386

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.004775	U	0.0529	0.0529	1.00	0.113	pCi/L	03/28/17 09:19	04/19/17 06:06	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					03/28/17 09:19	04/19/17 06:06	1

Lab Sample ID: LCS 160-300386/2-A
Matrix: Water
Analysis Batch: 304195

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300386

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	10.65		1.13	1.00	0.126	pCi/L	94	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	92.6		40 - 110						

Lab Sample ID: 160-21515-G-9-C MS
Matrix: Water
Analysis Batch: 304195

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 300386

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	0.458		11.4	11.83		1.24	1.00	0.133	pCi/L	100	75 - 138
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	87.6		40 - 110								

Lab Sample ID: 160-21515-H-9-A MSD
Matrix: Water
Analysis Batch: 304195

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 300386

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	0.458		11.4	10.77		1.14	1.00	0.115	pCi/L	91	75 - 138	0.45	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	87.9		40 - 110										

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-300401/1-A
Matrix: Water
Analysis Batch: 303158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 300401

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2887	U	0.239	0.241	1.00	0.381	pCi/L	03/28/17 10:11	04/12/17 11:20	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					03/28/17 10:11	04/12/17 11:20	1
Y Carrier	86.7		40 - 110					03/28/17 10:11	04/12/17 11:20	1

Lab Sample ID: LCS 160-300401/2-A
Matrix: Water
Analysis Batch: 303158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 300401

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.6	14.70		1.57	1.00	0.344	pCi/L	108	56 - 140
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	92.6		40 - 110						
Y Carrier	87.9		40 - 110						

Lab Sample ID: 160-21515-G-9-D MS
Matrix: Water
Analysis Batch: 303158

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 300401

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	0.435		13.6	14.16		1.53	1.00	0.389	pCi/L	101	45 - 150
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	87.6		40 - 110								
Y Carrier	90.1		40 - 110								

Lab Sample ID: 160-21515-H-9-B MSD
Matrix: Water
Analysis Batch: 303158

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 300401

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	0.435		13.6	16.08		1.73	1.00	0.502	pCi/L	115	45 - 150	0.59	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	87.9		40 - 110										
Y Carrier	86.7		40 - 110										

TestAmerica Pensacola
 3355 McLemore Drive
 Pensacola, FL 32514
 Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Sample: Rick Heyndorfer / RCH
 Lab PM: Whitmire, Cheyenne R
 Client Contact: Mr. Cale Sellers
 E-Mail: cheyenne.whitmire@testamericainc.com
 Company: Southern Company
 Address: PO BOX 2641 GSC8
 City: Birmingham
 State, Zip: AL, 35291
 Phone: 205-992-7762(Tel)
 Email: CBSSELLER@SOUTHERNCO.COM
 Project Name: CCR -Plant Daniel
 Site: Gypsum

Due Date Requested:
 TAT Requested (days):
 FO #: Purchase Order not required
 WO #:
 Project #: 40006621
 SOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Other)	Field Filtered Sample (Yes or No)	Analysis Requested										Total Number of Containers	Special Instructions	
						D	N	D	N	D	N	D	N	D	N			D
MW-1	3-20-17	1618	G	Water														
MW-2		1059		Water														
MW-3		1017		Water														
MW-4		1304		Water														
MW-5		1349		Water														
MW-6		1116		Water														
MW-7		0854		Water														
MW-8		1308		Water														
MW-9		1148		Water														
MW-10		1455		Water														

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/IOC Requirements: **IV QC**
 Method of Shipment:
 Date/Time: 3-20-17 1700
 Received by: [Signature]
 Date/Time: 3-21-17 1026
 Received by: [Signature]
 Date/Time: 3-21-17 1026
 Received by: [Signature]

Cooler Temperature(s) °C and Other Remarks: 0.0°C, 0.0°C, 0.0°C
 Custody Seal No.:
 Δ Yes Δ No



Chain of Custody Record

Client Information			Lab PVI: Whitmire, Cheyenne R.			Carrier Tracking No(6):		
Client Contact: Mr. Cale Sellers			E-Mail: cheyenne.whitmire@testamericainc.com			COC No: 400-55446-23825.1		
Company: Southern Company			Due Date Requested:			Page:		
Address: PO BOX 2641 GSC8			TAT Requested (days):			Job #:		
City: Birmingham			PO #: Purchase Order not required			Analysis Requested		
State, Zip: AL, 35291			WO #:					
Phone: 205-992-7762(Tel)			Project #:					
Email: CBSSELLER@SOUTHERNCO.COM			SSOW#:					
Project Name: CCR -Plant Daniel			Field Filtered Sample (Yes or No):			Field Sampling Parameters:		
Site: Gypsum			Matrix (W=Water, S=Soils, O=Water/Oil, BT=Tissue, A=Air):			Mercury		
Sample Identification			Sample Type (C=Comp, G=grab)			9315_Ra226, 9320_Ra228, Ra228, Ra226Ra228_GPPC		
Sample Date			Sample Time			SM4500 Cl _E - Chloride, SM4500 SO ₄ E ₋ Sulfate, 2540C -		
3-20-17			1515			620 - Sb, As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, 7470A -		
MMW-1 EB-01			G			Total Dissolved Solids, 4500 F - C - Fluoride		
MMW-2 FB-01			G			Total Number of containers		
MMW-3			Water			3		
MMW-4			Water			3		
MMW-5			Water					
MMW-6			Water					
MMW-7			Water					
MMW-8			Water					
MMW-9			Water					
MMW-10			Water					
Possible Hazard Identification			Preservation Code:			Special Instructions/Notes		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological								
Deliverable Requested: I, II, III, IV, Other (specify)			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Empty Kit Relinquished by:			Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Date:			Date:			Special Instructions/QC Requirements: LEM IV QC		
Relinquished by: <i>[Signature]</i>			Received by: <i>[Signature]</i>			Method of Shipment:		
Date/Time: 3-20-17 1700			Date/Time: 3/20/17 1700			Company: RWH EW		
Relinquished by: <i>[Signature]</i>			Received by: <i>[Signature]</i>			Company: RWH EW		
Date/Time: 3/21/17 1026			Date/Time: 3/21/17 1026			Company: RWH EW		
Relinquished by: <i>[Signature]</i>			Received by: <i>[Signature]</i>			Company: RWH EW		
Date/Time:			Date/Time:			Company:		
Custody Seals Intact Δ Yes Δ No			Cooler Temperature(s) °C and Other Remarks:					



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-135429-2

SDG Number: Gypsum

Login Number: 135429

List Number: 1

Creator: Hughes, Nicholas T

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 0.0°C, 0.0°C IR-2
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-17
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-17
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-17
Louisiana (DW)	NELAP Secondary AB	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	05-06-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-17
Washington	State Program	10	C915	05-15-17
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-17
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-17 *
Florida	NELAP	4	E87689	06-30-17
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17
Nevada	State Program	9	MO000542017-1	07-31-17
New Jersey	NELAP	2	MO002	06-30-17 *
New York	NELAP	2	11616	03-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-135429-2
SDG: Gypsum

Laboratory: TestAmerica St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
North Dakota	State Program	8	R207	06-30-17
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-28-18
South Carolina	State Program	4	85002001	06-30-17
Texas	NELAP	6	T104704193-16-10	07-31-17
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17
Virginia	NELAP	3	460230	06-14-17
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-138310-1

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

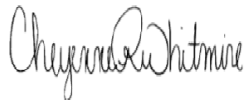
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

6/26/2017 4:38:07 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Job ID: 400-138310-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-138310-1

Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 355373 and analytical batch 355705 was outside control limits due to a unit conversion error.

General Chemistry

Method(s) SM 4500 F C: The sample duplicate RPD associated with batch 355961 exceeds limit, and or both samples results are less than 5 times RL. The data are considered valid because the absolute difference is less than RL.: (400-138383-B-2 DU).

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Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-1

Lab Sample ID: 400-138310-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00068	J	0.0013	0.00046	mg/L	5		6020	Total
Barium	0.19		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00041	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Boron	0.027	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	5.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0033		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0043	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0022		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Thallium	0.000090	J	0.00050	0.000085	mg/L	5		6020	Total Recoverable
Zinc	6.6	J	20	6.5	ug/L	5		6020	Total Recoverable
Total Dissolved Solids	54		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	6.0		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.8				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-138310-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.058		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.94		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00096	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Molybdenum	0.0023	J	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00082	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	26		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.84				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-138310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.10		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	0.91		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0017	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Lead	0.00044	J	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	34		5.0	3.4	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-3 (Continued)

Lab Sample ID: 400-138310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	10		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	4.44				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-138310-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.066		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0018	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	48		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.8		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.74				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-138310-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.067		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0010	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Selenium	0.00030	J	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.4		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.73				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-138310-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.064		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.1		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0022	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	30		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.9		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.050	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.9	J	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	4.61				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-138310-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.17		0.0025	0.00049	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 400-138310-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Beryllium	0.00046	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0025		0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	48		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	15		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	4.38				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-138310-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0015	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	44		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.7		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	7.14				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-138310-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.044		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.023	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	0.96		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0012	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	36		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.86				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-138310-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.027		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.027	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	0.61		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.00061	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	40		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	5.5		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.91				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: DUP-01

Lab Sample ID: 400-138310-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.17		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00050	J	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0024	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	56		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	16		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 400-138310-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.066		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Cobalt	0.0018	J	0.0025	0.00040	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	46		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	8.5		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 400-138310-13

No Detections.

Client Sample ID: FB-02

Lab Sample ID: 400-138310-14

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
7470A	Mercury (CVAA)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
Field Sampling	Field Sampling	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-138310-1	MW-1	Water	05/23/17 10:12	05/24/17 09:10
400-138310-2	MW-2	Water	05/23/17 18:09	05/24/17 09:10
400-138310-3	MW-3	Water	05/22/17 15:12	05/24/17 09:10
400-138310-4	MW-4	Water	05/23/17 07:20	05/24/17 09:10
400-138310-5	MW-5	Water	05/23/17 08:32	05/24/17 09:10
400-138310-6	MW-6	Water	05/22/17 16:08	05/24/17 09:10
400-138310-7	MW-7	Water	05/22/17 14:08	05/24/17 09:10
400-138310-8	MW-8	Water	05/23/17 16:13	05/24/17 09:10
400-138310-9	MW-9	Water	05/23/17 14:23	05/24/17 09:10
400-138310-10	MW-10	Water	05/23/17 13:00	05/24/17 09:10
400-138310-11	DUP-01	Water	05/22/17 13:08	05/24/17 09:10
400-138310-12	DUP-02	Water	05/23/17 06:20	05/24/17 09:10
400-138310-13	EB-01	Water	05/23/17 17:10	05/24/17 09:10
400-138310-14	FB-02	Water	05/23/17 17:20	05/24/17 09:10

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 05/23/17 10:12
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 16:31	5
Arsenic	0.00068	J	0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 16:31	5
Barium	0.19		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 16:31	5
Beryllium	0.00041	J	0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 16:31	5
Boron	0.027	J	0.050	0.021	mg/L		05/31/17 08:06	06/01/17 16:31	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 16:31	5
Calcium	5.0		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 16:31	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 16:31	5
Cobalt	0.0033		0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 16:31	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 16:31	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 16:31	5
Molybdenum	0.0043	J	0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 16:31	5
Selenium	0.0022		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 16:31	5
Thallium	0.000090	J	0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 16:31	5
Zinc	6.6	J	20	6.5	ug/L		05/31/17 08:06	06/01/17 16:31	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	54		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	6.9		2.0	0.60	mg/L			05/25/17 14:18	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/03/17 15:17	1
Sulfate	6.0		5.0	1.4	mg/L			05/25/17 14:24	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.8				SU			05/23/17 10:12	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 05/23/17 18:09
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 16:54	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 16:54	5
Barium	0.058		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 16:54	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 16:54	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 16:54	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 16:54	5
Calcium	0.94		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 16:54	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 16:54	5
Cobalt	0.00096	J	0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 16:54	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 16:54	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 16:54	5
Molybdenum	0.0023	J	0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 16:54	5
Selenium	0.00082	J	0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 16:54	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 16:54	5
Zinc	<6.5		20	6.5	ug/L		05/31/17 08:06	06/01/17 16:54	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 09:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	26		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	8.3		2.0	0.60	mg/L			05/25/17 14:48	1
Fluoride	<0.032		0.10	0.032	mg/L			06/03/17 15:24	1
Sulfate	<1.4		5.0	1.4	mg/L			05/25/17 14:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.84				SU			05/23/17 18:09	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 05/22/17 15:12
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 16:58	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 16:58	5
Barium	0.10		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 16:58	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 16:58	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 16:58	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 16:58	5
Calcium	0.91		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 16:58	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 16:58	5
Cobalt	0.0017	J	0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 16:58	5
Lead	0.00044	J	0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 16:58	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 16:58	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 16:58	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 16:58	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 16:58	5
Zinc	<6.5		20	6.5	ug/L		05/31/17 08:06	06/01/17 16:58	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	10		2.0	0.60	mg/L			05/25/17 14:48	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/03/17 15:27	1
Sulfate	<1.4		5.0	1.4	mg/L			05/25/17 14:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.44				SU			05/22/17 15:12	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 17:03	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 17:03	5
Barium	0.066		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 17:03	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:03	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 17:03	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:03	5
Calcium	1.8		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 17:03	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 17:03	5
Cobalt	0.0018	J	0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 17:03	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 17:03	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 17:03	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 17:03	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 17:03	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 17:03	5
Zinc	<6.5		20	6.5	ug/L		05/31/17 08:06	06/01/17 17:03	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	48		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	7.8		2.0	0.60	mg/L			05/25/17 14:48	1
Fluoride	<0.032		0.10	0.032	mg/L			06/03/17 15:30	1
Sulfate	<1.4		5.0	1.4	mg/L			05/25/17 14:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.74				SU			05/23/17 07:20	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 05/23/17 08:32
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 17:25	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 17:25	5
Barium	0.067		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 17:25	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:25	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 17:25	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:25	5
Calcium	1.9		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 17:25	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 17:25	5
Cobalt	0.0010	J	0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 17:25	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 17:25	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 17:25	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 17:25	5
Selenium	0.00030	J	0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 17:25	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 17:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	8.4		2.0	0.60	mg/L			05/25/17 14:48	1
Fluoride	<0.032		0.10	0.032	mg/L			06/05/17 16:52	1
Sulfate	<1.4		5.0	1.4	mg/L			05/25/17 14:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.73				SU			05/23/17 08:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 05/22/17 16:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 17:30	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 17:30	5
Barium	0.064		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 17:30	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:30	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 17:30	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:30	5
Calcium	1.1		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 17:30	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 17:30	5
Cobalt	0.0022	J	0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 17:30	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 17:30	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 17:30	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 17:30	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 17:30	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 17:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	6.9		2.0	0.60	mg/L			05/25/17 14:48	1
Fluoride	0.050	J	0.10	0.032	mg/L			06/05/17 16:58	1
Sulfate	1.9	J	5.0	1.4	mg/L			05/25/17 14:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.61				SU			05/22/17 16:08	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 05/22/17 14:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 17:34	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 17:34	5
Barium	0.17		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 17:34	5
Beryllium	0.00046	J	0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:34	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 17:34	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:34	5
Calcium	1.9		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 17:34	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 17:34	5
Cobalt	0.0025		0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 17:34	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 17:34	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 17:34	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 17:34	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 17:34	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 17:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	48		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	15		2.0	0.60	mg/L			05/25/17 14:48	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/05/17 17:01	1
Sulfate	<1.4		5.0	1.4	mg/L			05/25/17 14:54	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.38				SU			05/22/17 14:08	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 05/23/17 16:13
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 17:39	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 17:39	5
Barium	0.11		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 17:39	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:39	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 17:39	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:39	5
Calcium	1.9		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 17:39	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 17:39	5
Cobalt	0.0015 J		0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 17:39	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 17:39	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 17:39	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 17:39	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 17:39	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 17:39	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	8.7		2.0	0.60	mg/L			05/30/17 10:45	1
Fluoride	<0.032		0.10	0.032	mg/L			06/05/17 17:04	1
Sulfate	<1.4		5.0	1.4	mg/L			05/31/17 08:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.14				SU			05/23/17 16:13	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 05/23/17 14:23
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 17:43	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 17:43	5
Barium	0.044		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 17:43	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:43	5
Boron	0.023	J	0.050	0.021	mg/L		05/31/17 08:06	06/01/17 17:43	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:43	5
Calcium	0.96		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 17:43	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 17:43	5
Cobalt	0.0012	J	0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 17:43	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 17:43	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 17:43	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 17:43	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 17:43	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 17:43	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	36		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	8.0		2.0	0.60	mg/L			05/30/17 10:46	1
Fluoride	<0.032		0.10	0.032	mg/L			06/05/17 17:07	1
Sulfate	<1.4		5.0	1.4	mg/L			05/31/17 08:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.86				SU			05/23/17 14:23	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 05/23/17 13:00
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 17:48	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 17:48	5
Barium	0.027		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 17:48	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:48	5
Boron	0.027	J	0.050	0.021	mg/L		05/31/17 08:06	06/01/17 17:48	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:48	5
Calcium	0.61		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 17:48	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 17:48	5
Cobalt	0.00061	J	0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 17:48	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 17:48	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 17:48	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 17:48	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 17:48	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 17:48	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 10:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	40		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	5.5		2.0	0.60	mg/L			05/30/17 10:46	1
Fluoride	<0.032		0.10	0.032	mg/L			06/05/17 17:09	1
Sulfate	<1.4		5.0	1.4	mg/L			05/31/17 08:28	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.91				SU			05/23/17 13:00	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 05/22/17 13:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 17:52	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 17:52	5
Barium	0.17		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 17:52	5
Beryllium	0.00050	J	0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:52	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 17:52	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:52	5
Calcium	1.9		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 17:52	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 17:52	5
Cobalt	0.0024	J	0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 17:52	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 17:52	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 17:52	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 17:52	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 17:52	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 17:52	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 11:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	56		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	16		2.0	0.60	mg/L			05/30/17 10:46	1
Fluoride	0.040	J	0.10	0.032	mg/L			06/05/17 17:13	1
Sulfate	<1.4		5.0	1.4	mg/L			05/31/17 08:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: DUP-02

Date Collected: 05/23/17 06:20

Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-12

Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 17:57	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 17:57	5
Barium	0.066		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 17:57	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:57	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 17:57	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 17:57	5
Calcium	1.9		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 17:57	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 17:57	5
Cobalt	0.0018	J	0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 17:57	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 17:57	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 17:57	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 17:57	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 17:57	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 17:57	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 11:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	46		5.0	3.4	mg/L			05/26/17 16:31	1
Chloride	8.5		2.0	0.60	mg/L			05/30/17 10:46	1
Fluoride	<0.032		0.10	0.032	mg/L			06/05/17 17:15	1
Sulfate	<1.4		5.0	1.4	mg/L			05/31/17 08:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 05/23/17 17:10
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-13
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 18:01	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 18:01	5
Barium	<0.00049		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 18:01	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 18:01	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 18:01	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 18:01	5
Calcium	<0.13		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 18:01	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 18:01	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 18:01	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 18:01	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 18:01	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 18:01	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 18:01	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 18:01	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 11:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			05/27/17 13:54	1
Chloride	<0.60		2.0	0.60	mg/L			05/30/17 10:46	1
Fluoride	<0.032		0.10	0.032	mg/L			06/05/17 17:27	1
Sulfate	<1.4		5.0	1.4	mg/L			05/31/17 08:28	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: FB-02
Date Collected: 05/23/17 17:20
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-14
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 18:06	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 18:06	5
Barium	<0.00049		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 18:06	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 18:06	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 18:06	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 18:06	5
Calcium	<0.13		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 18:06	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 18:06	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 18:06	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 18:06	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 18:06	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 18:06	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 18:06	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 18:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:35	06/05/17 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			05/27/17 13:54	1
Chloride	<0.60		2.0	0.60	mg/L			05/30/17 10:47	1
Fluoride	<0.032		0.10	0.032	mg/L			06/05/17 17:30	1
Sulfate	<1.4		5.0	1.4	mg/L			05/31/17 08:28	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 05/23/17 10:12
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 16:31	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 09:44	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	354983	05/25/17 14:18	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 15:17	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354982	05/25/17 14:24	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/23/17 10:12	BWS	TAL PEN

Client Sample ID: MW-2
Date Collected: 05/23/17 18:09
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 16:54	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 09:46	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	354983	05/25/17 14:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 15:24	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354982	05/25/17 14:54	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/23/17 18:09	BWS	TAL PEN

Client Sample ID: MW-3
Date Collected: 05/22/17 15:12
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 16:58	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 10:43	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	354983	05/25/17 14:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 15:27	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354982	05/25/17 14:54	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/22/17 15:12	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 17:03	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 10:44	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	354983	05/25/17 14:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355807	06/03/17 15:30	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354982	05/25/17 14:54	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/23/17 07:20	BWS	TAL PEN

Client Sample ID: MW-5
Date Collected: 05/23/17 08:32
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 17:25	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 10:46	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	354983	05/25/17 14:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 16:52	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354982	05/25/17 14:54	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/23/17 08:32	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 05/22/17 16:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 17:30	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 10:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	354983	05/25/17 14:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 16:58	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354982	05/25/17 14:54	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/22/17 16:08	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 05/22/17 14:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 17:34	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 10:50	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	354983	05/25/17 14:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 17:01	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	354982	05/25/17 14:54	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/22/17 14:08	BWS	TAL PEN

Client Sample ID: MW-8
Date Collected: 05/23/17 16:13
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 17:39	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 10:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	355367	05/30/17 10:45	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 17:04	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	355483	05/31/17 08:28	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/23/17 16:13	BWS	TAL PEN

Client Sample ID: MW-9
Date Collected: 05/23/17 14:23
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 17:43	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 10:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	355367	05/30/17 10:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 17:07	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	355483	05/31/17 08:28	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/23/17 14:23	BWS	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: MW-10

Lab Sample ID: 400-138310-10

Date Collected: 05/23/17 13:00

Matrix: Water

Date Received: 05/24/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 17:48	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 10:55	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	355367	05/30/17 10:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 17:09	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	355483	05/31/17 08:28	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	358332	05/23/17 13:00	BWS	TAL PEN

Client Sample ID: DUP-01

Lab Sample ID: 400-138310-11

Date Collected: 05/22/17 13:08

Matrix: Water

Date Received: 05/24/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 17:52	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 11:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	355367	05/30/17 10:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 17:13	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	355483	05/31/17 08:28	RRC	TAL PEN

Client Sample ID: DUP-02

Lab Sample ID: 400-138310-12

Date Collected: 05/23/17 06:20

Matrix: Water

Date Received: 05/24/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 17:57	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 11:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355086	05/26/17 16:31	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	355367	05/30/17 10:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 17:15	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	355483	05/31/17 08:28	RRC	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 05/23/17 17:10
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 18:01	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 11:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355170	05/27/17 13:54	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	355367	05/30/17 10:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 17:27	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	355483	05/31/17 08:28	RRC	TAL PEN

Client Sample ID: FB-02
Date Collected: 05/23/17 17:20
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			355373	05/31/17 08:06	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	355705	06/01/17 18:06	DRE	TAL PEN
Total/NA	Prep	7470A			355398	05/31/17 09:35	JAP	TAL PEN
Total/NA	Analysis	7470A		1	355918	06/05/17 11:54	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	355170	05/27/17 13:54	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	355367	05/30/17 10:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	355961	06/05/17 17:30	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	355483	05/31/17 08:28	RRC	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Metals

Prep Batch: 355373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total Recoverable	Water	3005A	
400-138310-2	MW-2	Total Recoverable	Water	3005A	
400-138310-3	MW-3	Total Recoverable	Water	3005A	
400-138310-4	MW-4	Total Recoverable	Water	3005A	
400-138310-5	MW-5	Total Recoverable	Water	3005A	
400-138310-6	MW-6	Total Recoverable	Water	3005A	
400-138310-7	MW-7	Total Recoverable	Water	3005A	
400-138310-8	MW-8	Total Recoverable	Water	3005A	
400-138310-9	MW-9	Total Recoverable	Water	3005A	
400-138310-10	MW-10	Total Recoverable	Water	3005A	
400-138310-11	DUP-01	Total Recoverable	Water	3005A	
400-138310-12	DUP-02	Total Recoverable	Water	3005A	
400-138310-13	EB-01	Total Recoverable	Water	3005A	
400-138310-14	FB-02	Total Recoverable	Water	3005A	
MB 400-355373/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-355373/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-138310-1 MS	MW-1	Total Recoverable	Water	3005A	
400-138310-1 MSD	MW-1	Total Recoverable	Water	3005A	

Prep Batch: 355398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total/NA	Water	7470A	
400-138310-2	MW-2	Total/NA	Water	7470A	
400-138310-3	MW-3	Total/NA	Water	7470A	
400-138310-4	MW-4	Total/NA	Water	7470A	
400-138310-5	MW-5	Total/NA	Water	7470A	
400-138310-6	MW-6	Total/NA	Water	7470A	
400-138310-7	MW-7	Total/NA	Water	7470A	
400-138310-8	MW-8	Total/NA	Water	7470A	
400-138310-9	MW-9	Total/NA	Water	7470A	
400-138310-10	MW-10	Total/NA	Water	7470A	
400-138310-11	DUP-01	Total/NA	Water	7470A	
400-138310-12	DUP-02	Total/NA	Water	7470A	
400-138310-13	EB-01	Total/NA	Water	7470A	
400-138310-14	FB-02	Total/NA	Water	7470A	
MB 400-355398/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-355398/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-138310-2 MS	MW-2	Total/NA	Water	7470A	
400-138310-2 MSD	MW-2	Total/NA	Water	7470A	

Analysis Batch: 355705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total Recoverable	Water	6020	355373
400-138310-2	MW-2	Total Recoverable	Water	6020	355373
400-138310-3	MW-3	Total Recoverable	Water	6020	355373
400-138310-4	MW-4	Total Recoverable	Water	6020	355373
400-138310-5	MW-5	Total Recoverable	Water	6020	355373
400-138310-6	MW-6	Total Recoverable	Water	6020	355373
400-138310-7	MW-7	Total Recoverable	Water	6020	355373
400-138310-8	MW-8	Total Recoverable	Water	6020	355373
400-138310-9	MW-9	Total Recoverable	Water	6020	355373

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Metals (Continued)

Analysis Batch: 355705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-10	MW-10	Total Recoverable	Water	6020	355373
400-138310-11	DUP-01	Total Recoverable	Water	6020	355373
400-138310-12	DUP-02	Total Recoverable	Water	6020	355373
400-138310-13	EB-01	Total Recoverable	Water	6020	355373
400-138310-14	FB-02	Total Recoverable	Water	6020	355373
MB 400-355373/1-A ^5	Method Blank	Total Recoverable	Water	6020	355373
LCS 400-355373/2-A	Lab Control Sample	Total Recoverable	Water	6020	355373
400-138310-1 MS	MW-1	Total Recoverable	Water	6020	355373
400-138310-1 MSD	MW-1	Total Recoverable	Water	6020	355373

Analysis Batch: 355918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total/NA	Water	7470A	355398
400-138310-2	MW-2	Total/NA	Water	7470A	355398
400-138310-3	MW-3	Total/NA	Water	7470A	355398
400-138310-4	MW-4	Total/NA	Water	7470A	355398
400-138310-5	MW-5	Total/NA	Water	7470A	355398
400-138310-6	MW-6	Total/NA	Water	7470A	355398
400-138310-7	MW-7	Total/NA	Water	7470A	355398
400-138310-8	MW-8	Total/NA	Water	7470A	355398
400-138310-9	MW-9	Total/NA	Water	7470A	355398
400-138310-10	MW-10	Total/NA	Water	7470A	355398
400-138310-11	DUP-01	Total/NA	Water	7470A	355398
400-138310-12	DUP-02	Total/NA	Water	7470A	355398
400-138310-13	EB-01	Total/NA	Water	7470A	355398
400-138310-14	FB-02	Total/NA	Water	7470A	355398
MB 400-355398/14-A	Method Blank	Total/NA	Water	7470A	355398
LCS 400-355398/15-A	Lab Control Sample	Total/NA	Water	7470A	355398
400-138310-2 MS	MW-2	Total/NA	Water	7470A	355398
400-138310-2 MSD	MW-2	Total/NA	Water	7470A	355398

General Chemistry

Analysis Batch: 354982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-138310-2	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-138310-3	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-138310-4	MW-4	Total/NA	Water	SM 4500 SO4 E	
400-138310-5	MW-5	Total/NA	Water	SM 4500 SO4 E	
400-138310-6	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-138310-7	MW-7	Total/NA	Water	SM 4500 SO4 E	
MB 400-354982/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-354982/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-354982/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-138056-A-4 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-138056-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 354983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total/NA	Water	SM 4500 Cl- E	
400-138310-2	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-138310-3	MW-3	Total/NA	Water	SM 4500 Cl- E	
400-138310-4	MW-4	Total/NA	Water	SM 4500 Cl- E	
400-138310-5	MW-5	Total/NA	Water	SM 4500 Cl- E	
400-138310-6	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-138310-7	MW-7	Total/NA	Water	SM 4500 Cl- E	
MB 400-354983/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-354983/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-354983/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-138056-A-4 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-138056-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 355086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total/NA	Water	SM 2540C	
400-138310-2	MW-2	Total/NA	Water	SM 2540C	
400-138310-3	MW-3	Total/NA	Water	SM 2540C	
400-138310-4	MW-4	Total/NA	Water	SM 2540C	
400-138310-5	MW-5	Total/NA	Water	SM 2540C	
400-138310-6	MW-6	Total/NA	Water	SM 2540C	
400-138310-7	MW-7	Total/NA	Water	SM 2540C	
400-138310-8	MW-8	Total/NA	Water	SM 2540C	
400-138310-9	MW-9	Total/NA	Water	SM 2540C	
400-138310-10	MW-10	Total/NA	Water	SM 2540C	
400-138310-11	DUP-01	Total/NA	Water	SM 2540C	
400-138310-12	DUP-02	Total/NA	Water	SM 2540C	
MB 400-355086/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-355086/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-138310-4 DU	MW-4	Total/NA	Water	SM 2540C	

Analysis Batch: 355170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-13	EB-01	Total/NA	Water	SM 2540C	
400-138310-14	FB-02	Total/NA	Water	SM 2540C	
MB 400-355170/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-355170/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-138427-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 355367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-8	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-138310-9	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-138310-10	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-138310-11	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-138310-12	DUP-02	Total/NA	Water	SM 4500 Cl- E	
400-138310-13	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-138310-14	FB-02	Total/NA	Water	SM 4500 Cl- E	
MB 400-355367/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-355367/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-355367/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

General Chemistry (Continued)

Analysis Batch: 355367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-8 MS	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-138310-8 MSD	MW-8	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 355483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-8	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-138310-9	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-138310-10	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-138310-11	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-138310-12	DUP-02	Total/NA	Water	SM 4500 SO4 E	
400-138310-13	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-138310-14	FB-02	Total/NA	Water	SM 4500 SO4 E	
MB 400-355483/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-355483/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-355483/12	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-138310-8 MS	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-138310-8 MSD	MW-8	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 355807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total/NA	Water	SM 4500 F C	
400-138310-2	MW-2	Total/NA	Water	SM 4500 F C	
400-138310-3	MW-3	Total/NA	Water	SM 4500 F C	
400-138310-4	MW-4	Total/NA	Water	SM 4500 F C	
MB 400-355807/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-355807/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-138231-A-20 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-138231-A-20 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-138231-A-29 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-138231-A-29 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-138310-1 DU	MW-1	Total/NA	Water	SM 4500 F C	

Analysis Batch: 355961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-5	MW-5	Total/NA	Water	SM 4500 F C	
400-138310-6	MW-6	Total/NA	Water	SM 4500 F C	
400-138310-7	MW-7	Total/NA	Water	SM 4500 F C	
400-138310-8	MW-8	Total/NA	Water	SM 4500 F C	
400-138310-9	MW-9	Total/NA	Water	SM 4500 F C	
400-138310-10	MW-10	Total/NA	Water	SM 4500 F C	
400-138310-11	DUP-01	Total/NA	Water	SM 4500 F C	
400-138310-12	DUP-02	Total/NA	Water	SM 4500 F C	
400-138310-13	EB-01	Total/NA	Water	SM 4500 F C	
400-138310-14	FB-02	Total/NA	Water	SM 4500 F C	
MB 400-355961/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-355961/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-138310-5 MS	MW-5	Total/NA	Water	SM 4500 F C	
400-138310-5 MSD	MW-5	Total/NA	Water	SM 4500 F C	
400-138383-B-2 DU	Duplicate	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Field Service / Mobile Lab

Analysis Batch: 358332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total/NA	Water	Field Sampling	
400-138310-2	MW-2	Total/NA	Water	Field Sampling	
400-138310-3	MW-3	Total/NA	Water	Field Sampling	
400-138310-4	MW-4	Total/NA	Water	Field Sampling	
400-138310-5	MW-5	Total/NA	Water	Field Sampling	
400-138310-6	MW-6	Total/NA	Water	Field Sampling	
400-138310-7	MW-7	Total/NA	Water	Field Sampling	
400-138310-8	MW-8	Total/NA	Water	Field Sampling	
400-138310-9	MW-9	Total/NA	Water	Field Sampling	
400-138310-10	MW-10	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-355373/1-A ^5
Matrix: Water
Analysis Batch: 355705

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 355373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0010		0.0025	0.0010	mg/L		05/31/17 08:06	06/01/17 16:22	5
Arsenic	<0.00046		0.0013	0.00046	mg/L		05/31/17 08:06	06/01/17 16:22	5
Barium	<0.00049		0.0025	0.00049	mg/L		05/31/17 08:06	06/01/17 16:22	5
Beryllium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 16:22	5
Boron	<0.021		0.050	0.021	mg/L		05/31/17 08:06	06/01/17 16:22	5
Cadmium	<0.00034		0.0025	0.00034	mg/L		05/31/17 08:06	06/01/17 16:22	5
Calcium	<0.13		0.25	0.13	mg/L		05/31/17 08:06	06/01/17 16:22	5
Chromium	<0.0011		0.0025	0.0011	mg/L		05/31/17 08:06	06/01/17 16:22	5
Cobalt	<0.00040		0.0025	0.00040	mg/L		05/31/17 08:06	06/01/17 16:22	5
Lead	<0.00035		0.0013	0.00035	mg/L		05/31/17 08:06	06/01/17 16:22	5
Lithium	<0.0032		0.0050	0.0032	mg/L		05/31/17 08:06	06/01/17 16:22	5
Molybdenum	<0.00085		0.015	0.00085	mg/L		05/31/17 08:06	06/01/17 16:22	5
Selenium	<0.00024		0.0013	0.00024	mg/L		05/31/17 08:06	06/01/17 16:22	5
Thallium	<0.000085		0.00050	0.000085	mg/L		05/31/17 08:06	06/01/17 16:22	5
Zinc	<0.0065		0.020	0.0065	mg/L		05/31/17 08:06	06/01/17 16:22	5

Lab Sample ID: LCS 400-355373/2-A
Matrix: Water
Analysis Batch: 355705

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 355373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0552		mg/L		110	80 - 120
Arsenic	0.0500	0.0544		mg/L		109	80 - 120
Barium	0.0500	0.0534		mg/L		107	80 - 120
Beryllium	0.0500	0.0530		mg/L		106	80 - 120
Boron	0.100	0.110		mg/L		110	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Calcium	5.00	4.61		mg/L		92	80 - 120
Chromium	0.0500	0.0501		mg/L		100	80 - 120
Cobalt	0.0500	0.0496		mg/L		99	80 - 120
Lead	0.0500	0.0513		mg/L		103	80 - 120
Lithium	0.0500	0.0562		mg/L		112	80 - 120
Molybdenum	0.100	0.106		mg/L		106	80 - 120
Selenium	0.0500	0.0536		mg/L		107	80 - 120
Thallium	0.0100	0.0107		mg/L		107	80 - 120
Zinc	0.0500	0.0537		mg/L		107	80 - 120

Lab Sample ID: 400-138310-1 MS
Matrix: Water
Analysis Batch: 355705

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 355373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0010		0.0500	0.0586		mg/L		117	75 - 125
Antimony	<0.0010		0.0500	0.0586		mg/L		117	75 - 125
Arsenic	0.00068	J	0.0500	0.0557		mg/L		110	75 - 125
Arsenic	0.00068	J	0.0500	0.0557		mg/L		110	75 - 125
Barium	0.19		0.0500	0.250		mg/L		109	75 - 125
Barium	0.19		0.0500	0.250		mg/L		109	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-138310-1 MS

Matrix: Water

Analysis Batch: 355705

Client Sample ID: MW-1
Prep Type: Total Recoverable

Prep Batch: 355373

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result			Result					
Beryllium	0.00041	J	0.0500	0.0551		mg/L		109	75 - 125
Beryllium	0.00041	J	0.0500	0.0551		mg/L		109	75 - 125
Boron	0.027	J	0.100	0.140		mg/L		113	75 - 125
Boron	0.027	J	0.100	0.140		mg/L		113	75 - 125
Cadmium	<0.00034		0.0500	0.0539		mg/L		108	75 - 125
Cadmium	<0.00034		0.0500	0.0539		mg/L		108	75 - 125
Calcium	5.0		5.00	9.80		mg/L		97	75 - 125
Calcium	5.0		5.00	9.80		mg/L		97	75 - 125
Chromium	<0.0011		0.0500	0.0513		mg/L		103	75 - 125
Chromium	<0.0011		0.0500	0.0513		mg/L		103	75 - 125
Cobalt	0.0033		0.0500	0.0539		mg/L		101	75 - 125
Cobalt	0.0033		0.0500	0.0539		mg/L		101	75 - 125
Lead	<0.00035		0.0500	0.0521		mg/L		104	75 - 125
Lead	<0.00035		0.0500	0.0521		mg/L		104	75 - 125
Lithium	<0.0032		0.0500	0.0530		mg/L		106	75 - 125
Lithium	<0.0032		0.0500	0.0530		mg/L		106	75 - 125
Molybdenum	0.0043	J	0.100	0.111		mg/L		107	75 - 125
Molybdenum	0.0043	J	0.100	0.111		mg/L		107	75 - 125
Selenium	0.0022		0.0500	0.0564		mg/L		108	75 - 125
Selenium	0.0022		0.0500	0.0564		mg/L		108	75 - 125
Thallium	0.000090	J	0.0100	0.0110		mg/L		110	75 - 125
Thallium	0.000090	J	0.0100	0.0110		mg/L		110	75 - 125
Zinc	0.0066	J	0.0500	0.0612		mg/L		109	75 - 125
Zinc	0.0066	J	50.0	61.2		ug/L		122	75 - 125

Lab Sample ID: 400-138310-1 MSD

Matrix: Water

Analysis Batch: 355705

Client Sample ID: MW-1
Prep Type: Total Recoverable

Prep Batch: 355373

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result			Result							
Antimony	<0.0010		0.0500	0.0558		mg/L		112	75 - 125	5	20
Antimony	<0.0010		0.0500	0.0558		mg/L		112	75 - 125	5	20
Arsenic	0.00068	J	0.0500	0.0547		mg/L		108	75 - 125	2	20
Arsenic	0.00068	J	0.0500	0.0547		mg/L		108	75 - 125	2	20
Barium	0.19		0.0500	0.243		mg/L		96	75 - 125	3	20
Barium	0.19		0.0500	0.243		mg/L		96	75 - 125	3	20
Beryllium	0.00041	J	0.0500	0.0553		mg/L		110	75 - 125	0	20
Beryllium	0.00041	J	0.0500	0.0553		mg/L		110	75 - 125	0	20
Boron	0.027	J	0.100	0.136		mg/L		109	75 - 125	3	20
Boron	0.027	J	0.100	0.136		mg/L		109	75 - 125	3	20
Cadmium	<0.00034		0.0500	0.0530		mg/L		106	75 - 125	2	20
Cadmium	<0.00034		0.0500	0.0530		mg/L		106	75 - 125	2	20
Calcium	5.0		5.00	9.69		mg/L		94	75 - 125	1	20
Calcium	5.0		5.00	9.69		mg/L		94	75 - 125	1	20
Chromium	<0.0011		0.0500	0.0506		mg/L		101	75 - 125	1	20
Chromium	<0.0011		0.0500	0.0506		mg/L		101	75 - 125	1	20
Cobalt	0.0033		0.0500	0.0532		mg/L		100	75 - 125	1	20
Cobalt	0.0033		0.0500	0.0532		mg/L		100	75 - 125	1	20

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 400-138310-1 MSD
Matrix: Water
Analysis Batch: 355705

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 355373

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Lead	<0.00035		0.0500	0.0519		mg/L		104	75 - 125	0	20
Lead	<0.00035		0.0500	0.0519		mg/L		104	75 - 125	0	20
Lithium	<0.0032		0.0500	0.0531		mg/L		106	75 - 125	0	20
Lithium	<0.0032		0.0500	0.0531		mg/L		106	75 - 125	0	20
Molybdenum	0.0043	J	0.100	0.108		mg/L		104	75 - 125	3	20
Molybdenum	0.0043	J	0.100	0.108		mg/L		104	75 - 125	3	20
Selenium	0.0022		0.0500	0.0550		mg/L		106	75 - 125	2	20
Selenium	0.0022		0.0500	0.0550		mg/L		106	75 - 125	2	20
Thallium	0.000090	J	0.0100	0.0110		mg/L		109	75 - 125	1	20
Thallium	0.000090	J	0.0100	0.0110		mg/L		109	75 - 125	1	20
Zinc	0.0066	J	0.0500	0.0597		mg/L		106	75 - 125	2	20
Zinc	0.0066	J	50.0	59.7	F2	ug/L		119	75 - 125	200	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-355398/14-A
Matrix: Water
Analysis Batch: 355918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 355398

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.000070		0.00020	0.000070	mg/L		05/31/17 09:34	06/05/17 09:32	1

Lab Sample ID: LCS 400-355398/15-A
Matrix: Water
Analysis Batch: 355918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 355398

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
Mercury	0.00101	0.000965		mg/L		96	80 - 120

Lab Sample ID: 400-138310-2 MS
Matrix: Water
Analysis Batch: 355918

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 355398

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	<0.000070		0.00201	0.00197		mg/L		98	80 - 120		

Lab Sample ID: 400-138310-2 MSD
Matrix: Water
Analysis Batch: 355918

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 355398

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	<0.000070		0.00201	0.00198		mg/L		99	80 - 120	1	20

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-355086/1
Matrix: Water
Analysis Batch: 355086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			05/26/17 16:31	1

Lab Sample ID: LCS 400-355086/2
Matrix: Water
Analysis Batch: 355086

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	278		mg/L		95	78 - 122

Lab Sample ID: 400-138310-4 DU
Matrix: Water
Analysis Batch: 355086

Client Sample ID: MW-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	48		48.0		mg/L		0	5

Lab Sample ID: MB 400-355170/1
Matrix: Water
Analysis Batch: 355170

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			05/27/17 13:54	1

Lab Sample ID: LCS 400-355170/2
Matrix: Water
Analysis Batch: 355170

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	248		mg/L		85	78 - 122

Lab Sample ID: 400-138427-A-2 DU
Matrix: Water
Analysis Batch: 355170

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	26		26.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-354983/6
Matrix: Water
Analysis Batch: 354983

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			05/25/17 13:16	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 400-354983/7
Matrix: Water
Analysis Batch: 354983

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	32.8		mg/L		109	90 - 110

Lab Sample ID: MRL 400-354983/3
Matrix: Water
Analysis Batch: 354983

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.87	J	mg/L		93	50 - 150

Lab Sample ID: 400-138056-A-4 MS
Matrix: Water
Analysis Batch: 354983

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	9.4		10.0	19.9		mg/L		105	73 - 120

Lab Sample ID: 400-138056-A-4 MSD
Matrix: Water
Analysis Batch: 354983

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	9.4		10.0	19.8		mg/L		104	73 - 120	1	8

Lab Sample ID: MB 400-355367/6
Matrix: Water
Analysis Batch: 355367

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			05/30/17 10:13	1

Lab Sample ID: LCS 400-355367/7
Matrix: Water
Analysis Batch: 355367

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.3		mg/L		104	90 - 110

Lab Sample ID: MRL 400-355367/3
Matrix: Water
Analysis Batch: 355367

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	2.16		mg/L		108	50 - 150

Lab Sample ID: 400-138310-8 MS
Matrix: Water
Analysis Batch: 355367

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.7		10.0	19.5		mg/L		108	73 - 120

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Lab Sample ID: 400-138310-8 MSD
Matrix: Water
Analysis Batch: 355367

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.7		10.0	19.5		mg/L		108	73 - 120	0	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-355807/3
Matrix: Water
Analysis Batch: 355807

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/03/17 14:24	1

Lab Sample ID: LCS 400-355807/4
Matrix: Water
Analysis Batch: 355807

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.94		mg/L		99	90 - 110

Lab Sample ID: 400-138231-A-20 MS
Matrix: Water
Analysis Batch: 355807

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	0.930		mg/L		93	75 - 125

Lab Sample ID: 400-138231-A-20 MSD
Matrix: Water
Analysis Batch: 355807

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	0.930		mg/L		93	75 - 125	0	4

Lab Sample ID: 400-138231-A-29 MS
Matrix: Water
Analysis Batch: 355807

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	0.900		mg/L		90	75 - 125

Lab Sample ID: 400-138231-A-29 MSD
Matrix: Water
Analysis Batch: 355807

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	0.930		mg/L		93	75 - 125	3	4

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-138310-1 DU
Matrix: Water
Analysis Batch: 355807

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.040	J	0.0400	J	mg/L		0	4

Lab Sample ID: MB 400-355961/3
Matrix: Water
Analysis Batch: 355961

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			06/05/17 16:44	1

Lab Sample ID: LCS 400-355961/4
Matrix: Water
Analysis Batch: 355961

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.94		mg/L		99	90 - 110

Lab Sample ID: 400-138310-5 MS
Matrix: Water
Analysis Batch: 355961

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.032		1.00	0.950		mg/L		95	75 - 125

Lab Sample ID: 400-138310-5 MSD
Matrix: Water
Analysis Batch: 355961

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	<0.032		1.00	0.950		mg/L		95	75 - 125	0	4

Lab Sample ID: 400-138383-B-2 DU
Matrix: Water
Analysis Batch: 355961

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.060	J	0.0500	J F5	mg/L		18	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-354982/6
Matrix: Water
Analysis Batch: 354982

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			05/25/17 13:18	1

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: LCS 400-354982/7
Matrix: Water
Analysis Batch: 354982

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.4		mg/L		102	90 - 110

Lab Sample ID: MRL 400-354982/3
Matrix: Water
Analysis Batch: 354982

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.53	J	mg/L		91	50 - 150

Lab Sample ID: 400-138056-A-4 MS
Matrix: Water
Analysis Batch: 354982

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4		10.0	8.30		mg/L		83	77 - 128

Lab Sample ID: 400-138056-A-4 MSD
Matrix: Water
Analysis Batch: 354982

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4		10.0	8.42		mg/L		84	77 - 128	1	5

Lab Sample ID: MB 400-355483/15
Matrix: Water
Analysis Batch: 355483

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			05/31/17 07:52	1

Lab Sample ID: LCS 400-355483/16
Matrix: Water
Analysis Batch: 355483

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.9		mg/L		99	90 - 110

Lab Sample ID: MRL 400-355483/12
Matrix: Water
Analysis Batch: 355483

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.55	J	mg/L		91	50 - 150

Lab Sample ID: 400-138310-8 MS
Matrix: Water
Analysis Batch: 355483

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4		10.0	10.8		mg/L		108	77 - 128

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
 SDG: Gypsum


Lab Sample ID: 400-138310-8 MSD
Matrix: Water
Analysis Batch: 355483

Client Sample ID: MW-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4		10.0	10.7		mg/L		107	77 - 128	1	5

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Chain of Custody Record

Client Information Client Contact: <i>Mr. Cale Sellers</i> Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) Email: CBSSELLER@SOUTHERNCO.COM Project #: 40006621 CCR - Plant Daniel Site: Gypsum		Lab PM: <i>Britt Swain</i> E-Mail: cheyenne.whitire@testamericainc.com Phone: <i>450-336-0192</i> Job #: <i>400-138310</i>		Carrier Tracking No(s): COC No: 400-55446-23825.1 Page: Job #: <i>400-138310</i>						
Analysis Requested Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 9315 Ra226, 9320 Ra228, Ra226Ra228 GFFC SM4500 Cl-E - Chloride, SM4500 SO4_F - Sulfate, 2540C - Total Dissolved Solids, 4500 F, C - Fluoride 6020 Sb,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Te,Tl, 7470A - Mercury		Field Sampling Parameters  400-138310 COC		Total Number of containers						
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (Water, Swallow, On-water/off, BT=TEST, AS=Air) Preservation Code:		Field Instructions/		Preservation M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP U - Acetone V - MCAA W - ph 4-5 Z - other (specify)						
MW-1	5-23-17	1012	G	Water						
MW-2	5-23-17	1809		Water						
MW-3	5-22-17	1512		Water						
MW-4	5-23-17	0720		Water						
MW-5	5-23-17	0832		Water						
MW-6	5-22-17	1608		Water						
MW-7	5-22-17	1408		Water						
MW-8	5-23-17	1613		Water						
MW-9	5-23-17	1423		Water						
MW-10	5-23-17	1300		Water						
DWP-01	5-22-17	1308	W	Water						
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:						
Empty Kit Relinquished by:		Date:		Method of Shipment:						
Relinquished by: <i>[Signature]</i>		Date/Time: 5-24-17 0910		Received by: <i>[Signature]</i>						
Relinquished by:		Date/Time:		Received by:						
Relinquished by:		Date/Time:		Received by:						
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.0, 0.0, 0.0, 0.0, 0.0						



Chain of Custody Record

Client Information Client Contact: <i>Mr. Cale Sellers</i> Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) Email: CBSSELLER@SOUTHERNCO.COM Project Name: CCR - Plant Daniel Site:		Lab PM: <i>Whitire, Cheyenne R</i> E-Mail: cheyenne.whitire@testamericainc.com Carrier Tracking Net(s):		COC No: 400-55446-23825.4 Page: Job #: 400-138310	
Analysis Requested Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Field Sampling Parameters Mercury 6020 - Sb,As,Ba,Bi,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl,7470A - SM4500 Cl.E - Chloride, SM4500 SO4 F - Sulfate, 2540C - 9315 Ra226, 9320 Ra228, Ra226Ra228_GFPCC Perform MS/MSD (Yes or No)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=oil, BI=Tissue, A=Air) Preservation Code:		Field Filtered Sample (Yes or No) D N D X X X X X X X X X		Total Number of containers	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/Note:	
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Date/Time: 5-23-17 0910 Company: <i>[Signature]</i>		Method of Shipment: Relinquished by: <i>[Signature]</i> Date/Time: 5-24-17 0910 Company:		Relinquished by: <i>[Signature]</i> Date/Time: 5-24-17 0910 Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 0.0, 0.0, 50.0		Custody Seal No.:	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-138310-1

SDG Number: Gypsum

Login Number: 138310

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 0.0°C IR-2
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-1
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-17

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-138310-2

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

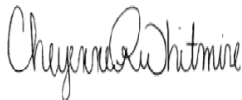
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

6/26/2017 5:09:21 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Job ID: 400-138310-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-138310-2

RAD

Method(s) PrecSep_0: Radium 228 Prep Batch 160-311552. Insufficient sample volume was available to perform a sample duplicate (DU). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision. MW-1 (400-138310-1), MW-2 (400-138310-2), MW-3 (400-138310-3), MW-4 (400-138310-4), MW-5 (400-138310-5), MW-6 (400-138310-6), MW-7 (400-138310-7), MW-8 (400-138310-8), MW-9 (400-138310-9), MW-10 (400-138310-10), DUP-01 (400-138310-11), DUP-02 (400-138310-12), EB-01 (400-138310-13) and FB-02 (400-138310-14)

Method(s) PrecSep-21: Radium 226 Prep Batch 160-311387. Insufficient sample volume was available to perform a sample duplicate (DU). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision. MW-1 (400-138310-1), MW-2 (400-138310-2), MW-3 (400-138310-3), MW-4 (400-138310-4), MW-5 (400-138310-5), MW-6 (400-138310-6), MW-7 (400-138310-7), MW-8 (400-138310-8), MW-9 (400-138310-9), MW-10 (400-138310-10), DUP-01 (400-138310-11), DUP-02 (400-138310-12), EB-01 (400-138310-13) and FB-02 (400-138310-14)



Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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



Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-138310-1	MW-1	Water	05/23/17 10:12	05/24/17 09:10
400-138310-2	MW-2	Water	05/23/17 18:09	05/24/17 09:10
400-138310-3	MW-3	Water	05/22/17 15:12	05/24/17 09:10
400-138310-4	MW-4	Water	05/23/17 07:20	05/24/17 09:10
400-138310-5	MW-5	Water	05/23/17 08:32	05/24/17 09:10
400-138310-6	MW-6	Water	05/22/17 16:08	05/24/17 09:10
400-138310-7	MW-7	Water	05/22/17 14:08	05/24/17 09:10
400-138310-8	MW-8	Water	05/23/17 16:13	05/24/17 09:10
400-138310-9	MW-9	Water	05/23/17 14:23	05/24/17 09:10
400-138310-10	MW-10	Water	05/23/17 13:00	05/24/17 09:10
400-138310-11	DUP-01	Water	05/22/17 13:08	05/24/17 09:10
400-138310-12	DUP-02	Water	05/23/17 06:20	05/24/17 09:10
400-138310-13	EB-01	Water	05/23/17 17:10	05/24/17 09:10
400-138310-14	FB-02	Water	05/23/17 17:20	05/24/17 09:10

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 05/23/17 10:12
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-1
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	0.868		0.162	0.180	1.00	0.0816	pCi/L	05/31/17 15:05	06/23/17 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					05/31/17 15:05	06/23/17 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.61		0.294	0.330	1.00	0.313	pCi/L	06/01/17 12:35	06/15/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/01/17 12:35	06/15/17 11:09	1
Y Carrier	94.2		40 - 110					06/01/17 12:35	06/15/17 11:09	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	2.48		0.336	0.375	5.00	0.313	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 05/23/17 18:09
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-2
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	0.291		0.107	0.110	1.00	0.112	pCi/L	05/31/17 15:05	06/23/17 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					05/31/17 15:05	06/23/17 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.352	U	0.237	0.239	1.00	0.368	pCi/L	06/01/17 12:35	06/15/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					06/01/17 12:35	06/15/17 11:09	1
Y Carrier	89.7		40 - 110					06/01/17 12:35	06/15/17 11:09	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	0.643		0.260	0.263	5.00	0.368	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-3
Date Collected: 05/22/17 15:12
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-3
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	0.592		0.138	0.148	1.00	0.103	pCi/L	05/31/17 15:05	06/23/17 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					05/31/17 15:05	06/23/17 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.23		0.300	0.320	1.00	0.372	pCi/L	06/01/17 12:35	06/15/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/01/17 12:35	06/15/17 11:09	1
Y Carrier	89.0		40 - 110					06/01/17 12:35	06/15/17 11:09	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	1.82		0.330	0.353	5.00	0.372	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
 SDG: Gypsum

Client Sample ID: MW-4
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-4
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	0.446		0.124	0.130	1.00	0.0988	pCi/L	05/31/17 15:05	06/23/17 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					05/31/17 15:05	06/23/17 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.601		0.236	0.242	1.00	0.327	pCi/L	06/01/17 12:35	06/15/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					06/01/17 12:35	06/15/17 11:09	1
Y Carrier	90.8		40 - 110					06/01/17 12:35	06/15/17 11:09	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	1.05		0.266	0.275	5.00	0.327	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 05/23/17 08:32
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-5
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	0.365		0.110	0.115	1.00	0.0881	pCi/L	05/31/17 15:05	06/23/17 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					05/31/17 15:05	06/23/17 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.486		0.231	0.235	1.00	0.335	pCi/L	06/01/17 12:35	06/15/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					06/01/17 12:35	06/15/17 11:09	1
Y Carrier	88.6		40 - 110					06/01/17 12:35	06/15/17 11:09	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		0.256	0.262	5.00	0.335	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-6
Date Collected: 05/22/17 16:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-6
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	0.292		0.101	0.105	1.00	0.0954	pCi/L	05/31/17 15:05	06/23/17 06:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					05/31/17 15:05	06/23/17 06:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.586		0.216	0.223	1.00	0.289	pCi/L	06/01/17 12:35	06/15/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/01/17 12:35	06/15/17 11:09	1
Y Carrier	89.7		40 - 110					06/01/17 12:35	06/15/17 11:09	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	0.878		0.239	0.246	5.00	0.289	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-7
Date Collected: 05/22/17 14:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-7
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	0.924		0.179	0.197	1.00	0.118	pCi/L	05/31/17 15:05	06/23/17 06:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					05/31/17 15:05	06/23/17 06:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.52		0.316	0.346	1.00	0.358	pCi/L	06/01/17 12:35	06/15/17 11:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/01/17 12:35	06/15/17 11:09	1
Y Carrier	87.1		40 - 110					06/01/17 12:35	06/15/17 11:09	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	2.44		0.363	0.398	5.00	0.358	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-8
Date Collected: 05/23/17 16:13
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-8
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	0.654		0.152	0.163	1.00	0.107	pCi/L	05/31/17 15:05	06/23/17 06:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					05/31/17 15:05	06/23/17 06:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.312	0.339	1.00	0.367	pCi/L	06/01/17 12:35	06/15/17 11:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		40 - 110					06/01/17 12:35	06/15/17 11:10	1
Y Carrier	89.0		40 - 110					06/01/17 12:35	06/15/17 11:10	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	2.09		0.347	0.376	5.00	0.367	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 05/23/17 14:23
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-9
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	0.448		0.133	0.139	1.00	0.119	pCi/L	05/31/17 15:05	06/23/17 06:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					05/31/17 15:05	06/23/17 06:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.126	U	0.195	0.195	1.00	0.329	pCi/L	06/01/17 12:35	06/15/17 11:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					06/01/17 12:35	06/15/17 11:10	1
Y Carrier	91.6		40 - 110					06/01/17 12:35	06/15/17 11:10	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	0.574		0.236	0.240	5.00	0.329	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-10
Date Collected: 05/23/17 13:00
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-10
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	0.120		0.0848	0.0854	1.00	0.118	pCi/L	05/31/17 15:05	06/23/17 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					05/31/17 15:05	06/23/17 06:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.144	U	0.195	0.195	1.00	0.326	pCi/L	06/01/17 12:35	06/15/17 11:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					06/01/17 12:35	06/15/17 11:10	1
Y Carrier	92.0		40 - 110					06/01/17 12:35	06/15/17 11:10	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	0.264	U	0.213	0.213	5.00	0.326	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: DUP-01
Date Collected: 05/22/17 13:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-11
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	1.15		0.205	0.230	1.00	0.127	pCi/L	05/31/17 15:05	06/23/17 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					05/31/17 15:05	06/23/17 06:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.51		0.316	0.345	1.00	0.349	pCi/L	06/01/17 12:35	06/15/17 11:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		40 - 110					06/01/17 12:35	06/15/17 11:10	1
Y Carrier	86.0		40 - 110					06/01/17 12:35	06/15/17 11:10	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	2.65		0.377	0.414	5.00	0.349	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: DUP-02

Lab Sample ID: 400-138310-12

Date Collected: 05/23/17 06:20

Matrix: Water

Date Received: 05/24/17 09:10

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.488		0.134	0.141	1.00	0.102	pCi/L	05/31/17 15:05	06/23/17 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					05/31/17 15:05	06/23/17 06:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.637		0.212	0.220	1.00	0.267	pCi/L	06/01/17 12:35	06/15/17 11:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/01/17 12:35	06/15/17 11:10	1
Y Carrier	93.8		40 - 110					06/01/17 12:35	06/15/17 11:10	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	1.13		0.251	0.261	5.00	0.267	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 05/23/17 17:10
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-13
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	0.0499	U	0.0585	0.0587	1.00	0.0945	pCi/L	05/31/17 15:05	06/23/17 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					05/31/17 15:05	06/23/17 06:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.124	U	0.183	0.184	1.00	0.308	pCi/L	06/01/17 12:35	06/15/17 11:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		40 - 110					06/01/17 12:35	06/15/17 11:10	1
Y Carrier	90.1		40 - 110					06/01/17 12:35	06/15/17 11:10	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	0.173	U	0.192	0.193	5.00	0.308	pCi/L		06/23/17 12:52	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: FB-02
Date Collected: 05/23/17 17:20
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-14
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	0.184		0.0903	0.0918	1.00	0.104	pCi/L	05/31/17 15:05	06/23/17 06:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					05/31/17 15:05	06/23/17 06:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.248	U	0.219	0.220	1.00	0.352	pCi/L	06/01/17 12:35	06/15/17 11:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					06/01/17 12:35	06/15/17 11:10	1
Y Carrier	91.2		40 - 110					06/01/17 12:35	06/15/17 11:10	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	0.432		0.237	0.239	5.00	0.352	pCi/L		06/23/17 12:52	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Qualifiers

Rad

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

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-1
Date Collected: 05/23/17 10:12
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:22	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: MW-2
Date Collected: 05/23/17 18:09
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:22	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: MW-3
Date Collected: 05/22/17 15:12
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:22	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: MW-4
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:22	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-5
Date Collected: 05/23/17 08:32
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:22	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: MW-6
Date Collected: 05/22/17 16:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314985	06/23/17 06:22	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: MW-7
Date Collected: 05/22/17 14:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314991	06/23/17 06:29	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:09	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: MW-8
Date Collected: 05/23/17 16:13
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314991	06/23/17 06:29	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: MW-9
Date Collected: 05/23/17 14:23
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314991	06/23/17 06:29	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: MW-10
Date Collected: 05/23/17 13:00
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314991	06/23/17 06:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: DUP-01
Date Collected: 05/22/17 13:08
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314991	06/23/17 06:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: DUP-02
Date Collected: 05/23/17 06:20
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314991	06/23/17 06:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Client Sample ID: EB-01
Date Collected: 05/23/17 17:10
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314991	06/23/17 06:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Client Sample ID: FB-02
Date Collected: 05/23/17 17:20
Date Received: 05/24/17 09:10

Lab Sample ID: 400-138310-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			311387	05/31/17 15:05	MBC	TAL SL
Total/NA	Analysis	9315		1	314991	06/23/17 06:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			311552	06/01/17 12:35	LDE	TAL SL
Total/NA	Analysis	9320		1	313460	06/15/17 11:10	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	315031	06/23/17 12:52	RTM	TAL SL

Laboratory References:

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

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Rad

Prep Batch: 311387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total/NA	Water	PrecSep-21	
400-138310-2	MW-2	Total/NA	Water	PrecSep-21	
400-138310-3	MW-3	Total/NA	Water	PrecSep-21	
400-138310-4	MW-4	Total/NA	Water	PrecSep-21	
400-138310-5	MW-5	Total/NA	Water	PrecSep-21	
400-138310-6	MW-6	Total/NA	Water	PrecSep-21	
400-138310-7	MW-7	Total/NA	Water	PrecSep-21	
400-138310-8	MW-8	Total/NA	Water	PrecSep-21	
400-138310-9	MW-9	Total/NA	Water	PrecSep-21	
400-138310-10	MW-10	Total/NA	Water	PrecSep-21	
400-138310-11	DUP-01	Total/NA	Water	PrecSep-21	
400-138310-12	DUP-02	Total/NA	Water	PrecSep-21	
400-138310-13	EB-01	Total/NA	Water	PrecSep-21	
400-138310-14	FB-02	Total/NA	Water	PrecSep-21	
MB 160-311387/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-311387/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-311387/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 311552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-138310-1	MW-1	Total/NA	Water	PrecSep_0	
400-138310-2	MW-2	Total/NA	Water	PrecSep_0	
400-138310-3	MW-3	Total/NA	Water	PrecSep_0	
400-138310-4	MW-4	Total/NA	Water	PrecSep_0	
400-138310-5	MW-5	Total/NA	Water	PrecSep_0	
400-138310-6	MW-6	Total/NA	Water	PrecSep_0	
400-138310-7	MW-7	Total/NA	Water	PrecSep_0	
400-138310-8	MW-8	Total/NA	Water	PrecSep_0	
400-138310-9	MW-9	Total/NA	Water	PrecSep_0	
400-138310-10	MW-10	Total/NA	Water	PrecSep_0	
400-138310-11	DUP-01	Total/NA	Water	PrecSep_0	
400-138310-12	DUP-02	Total/NA	Water	PrecSep_0	
400-138310-13	EB-01	Total/NA	Water	PrecSep_0	
400-138310-14	FB-02	Total/NA	Water	PrecSep_0	
MB 160-311552/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-311552/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-311552/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-311387/1-A
Matrix: Water
Analysis Batch: 314985

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311387

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01105	U	0.0467	0.0467	1.00	0.104	pCi/L	05/31/17 15:05	06/23/17 06:22	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.8		40 - 110		05/31/17 15:05	06/23/17 06:22	1			

Lab Sample ID: LCS 160-311387/2-A
Matrix: Water
Analysis Batch: 314985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311387

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.4	9.378		0.992	1.00	0.0821	pCi/L	83	68 - 137
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	Limits						
Ba Carrier	98.5		40 - 110		05/31/17 15:05	06/23/17 06:22	1		

Lab Sample ID: LCSD 160-311387/3-A
Matrix: Water
Analysis Batch: 314985

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 311387

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.4	9.817		1.03	1.00	0.0988	pCi/L	86	68 - 137	0.22	1
Carrier	LCSD LCSD		Limits		Prepared	Analyzed	Dil Fac				
Ba Carrier	%Yield	Qualifier	Limits								
Ba Carrier	100		40 - 110		06/01/17 12:35	06/15/17 11:09	1				

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-311552/1-A
Matrix: Water
Analysis Batch: 313460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311552

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2348	U	0.233	0.234	1.00	0.379	pCi/L	06/01/17 12:35	06/15/17 11:09	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.8		40 - 110		06/01/17 12:35	06/15/17 11:09	1			
Y Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
Y Carrier	%Yield	Qualifier	Limits							
Y Carrier	82.2		40 - 110		06/01/17 12:35	06/15/17 11:09	1			

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
 SDG: Gypsum

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-311552/2-A
Matrix: Water
Analysis Batch: 313460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311552

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.3	13.52		1.45	1.00	0.338	pCi/L	102	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.5		40 - 110
Y Carrier	90.1		40 - 110

Lab Sample ID: LCSD 160-311552/3-A
Matrix: Water
Analysis Batch: 313460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 311552

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	13.3	14.25		1.51	1.00	0.340	pCi/L	107	56 - 140	0.25	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	100		40 - 110
Y Carrier	91.2		40 - 110

Chain of Custody Record

Client Information Client Contact: <i>Mr. Cale Sellers</i> Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) Email: CBSSELLER@SOUTHERNCO.COM Project #: 40006621 CCR - Plant Daniel Site: Gypsum		Lab PM: <i>Britt Sw</i> E-Mail: cheyenne.whitire@testamericainc.com Carrier Tracking No(s): Job #: 400-138310		COC No: 400-55446-23825.1 Page: Preservation: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Analysis Requested Field Sampling Parameters Mercury 6020 - Sb,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Ti, 7470A - SM4500 - Cl - E - Chloride, SM4500 - SO4 - F - Sulfate, 2540C - 9315 - Ra226, 9320 - Ra228, Ra226Ra228 - GFFC Perform MS/MSD (Yes or No)		Total Number of containers Special Instructions/	
Matrix (W=Water, S=Sediment, O=Other, A=Air) Sample Type (C=Comp, G=Grab) Sample Date Sample Time Preservation Code		Field Filtered Sample (Yes or No)		Total Number of containers	
MW-1	5-23-17	1012	6	Water	X
MW-2	5-23-17	1809		Water	X
MW-3	5-22-17	1512		Water	X
MW-4	5-23-17	0720		Water	X
MW-5	5-23-17	0832		Water	X
MW-6	5-22-17	1608		Water	X
MW-7	5-22-17	1408		Water	X
MW-8	5-23-17	1613		Water	X
MW-9	5-23-17	1423		Water	X
MW-10	5-23-17	1300		Water	X
DWP-01	5-22-17	1308	40H	Water	X
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements:					
Relinquished by: <i>[Signature]</i> Date/Time: 5-24-17 0910 Company: <i>ADH SW</i>		Relinquished by: <i>[Signature]</i> Date/Time: 5-24-17 0910 Company: <i>KA</i>		Relinquished by: _____ Date/Time: _____ Company: _____	
Relinquished by: _____ Date/Time: _____ Company: _____		Relinquished by: _____ Date/Time: _____ Company: _____		Relinquished by: _____ Date/Time: _____ Company: _____	
Custody Seal No.: _____ Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: <i>0.9, 0.82, SA-8</i>					



Chain of Custody Record

Client Information Client Contact: <i>Mr. Cale Sellers</i> Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) Email: CBSSELLER@SOUTHERNCO.COM Project Name: CCR - Plant Daniel Site:		Lab PM: <i>Whitire, Cheyenne R</i> E-Mail: cheyenne.whitire@testamericainc.com Carrier Tracking Net(s):		COC No: 400-55446-23825.4 Page: Job #: 400-138310	
Analysis Requested Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Field Sampling Parameters Mercury 6020 - Sb,As,Ba,Bi,Be,Ca,Cd,Cr,Co,Pb,Li,Mo,Se,Tl,7470A - SM4500 Cl,E - Chloride, SM4500 SO4 F - Sulfate, 2540C - 9315 Ra226, 9320 Ra228, Ra226Ra228_GFPCC Perform MS/MSD (Yes or No)		Total Number of Containers	
Sample Identification Sample ID: <i>AWP-02</i> <i>ES-01</i> <i>FS-02</i> Sample Date: 5-23-17 Sample Time: 0620 Sample Type (C=comp, G=grab): G Matrix (W=water, S=solid, O=oil, BI=Tissue, A=Air): Water Preservation Code:		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Date/Time: 5-23-17 0910 Company: <i>SWX EW</i>		Method of Shipment: Relinquished by: <i>[Signature]</i> Date/Time: 5-24-17 0910 Company:		Relinquished by: <i>[Signature]</i> Date/Time: 5-24-17 0910 Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 0.0, 0.0, 50.0		Date/Time: 5-24-17 0910 Company:	

1
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13

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-138310-2

SDG Number: Gypsum

Login Number: 138310

List Number: 1

Creator: Siddoway, Benjamin

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C, 0.0°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-17
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-17
Illinois	NELAP	5	200041	10-09-17
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	10-31-17
Kentucky (UST)	State Program	4	53	06-30-17
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-17
Massachusetts	State Program	1	M-FL094	06-30-17
Michigan	State Program	5	9912	06-30-17
New Jersey	NELAP	2	FL006	06-30-17
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-17
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-17
Tennessee	State Program	4	TN02907	06-30-17
Texas	NELAP	6	T104704286-16-10	09-30-17
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-17

Laboratory: TestAmerica St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	MO00054	06-30-17 *
California	State Program	9	2886	03-31-18 *
Connecticut	State Program	1	PH-0241	03-31-19
Florida	NELAP	4	E87689	06-30-18
Illinois	NELAP	5	200023	11-30-17
Iowa	State Program	7	373	02-01-18
Kansas	NELAP	7	E-10236	10-31-17
Kentucky (DW)	State Program	4	90125	12-31-17
L-A-B	DoD ELAP		L2305	04-06-19
Louisiana	NELAP	6	04080	06-30-17 *
Louisiana (DW)	NELAP	6	LA170011	12-31-17
Maryland	State Program	3	310	09-30-17
Missouri	State Program	7	780	06-30-17 *
Nevada	State Program	9	MO000542017-1	07-31-17 *
New Jersey	NELAP	2	MO002	06-30-17 *
New York	NELAP	2	11616	03-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-138310-2
SDG: Gypsum

Laboratory: TestAmerica St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
North Dakota	State Program	8	R207	06-30-17 *
NRC	NRC		24-24817-01	12-31-22
Oklahoma	State Program	6	9997	08-31-17
Pennsylvania	NELAP	3	68-00540	02-21-18
South Carolina	State Program	4	85002001	06-30-17 *
Texas	NELAP	6	T104704193-16-10	07-31-17 *
US Fish & Wildlife	Federal		LE058448-0	10-31-17
USDA	Federal		P330-17-0028	02-02-20
Utah	NELAP	8	MO000542016-8	07-31-17 *
Virginia	NELAP	3	460230	06-14-18
Washington	State Program	10	C592	08-30-17
West Virginia DEP	State Program	3	381	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-144842-1

TestAmerica SDG: Plant Daniel Gypsum App III

Client Project/Site: CCR -Plant Daniel

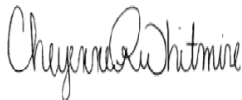
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

11/3/2017 9:39:15 AM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Job ID: 400-144842-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-144842-1

General Chemistry

Method(s) SM 4500 SO4 E: The following sample was diluted to bring the concentration of target analytes within the calibration range: (400-144723-A-159). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 374149 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

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Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-1

Lab Sample ID: 400-144842-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	7.6		0.25	0.13	mg/L	5		6020	Total
Total Dissolved Solids	70		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	6.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	8.0		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	5.55				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-144842-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1.3		0.25	0.13	mg/L	5		6020	Total
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	8.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.92				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-144842-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1.3		0.25	0.13	mg/L	5		6020	Total
Total Dissolved Solids	60		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	9.8		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.050	J	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	4.51				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-4

Lab Sample ID: 400-144842-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2.1		0.25	0.13	mg/L	5		6020	Total
Total Dissolved Solids	54		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	9.5		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.78				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-5

Lab Sample ID: 400-144842-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2.3		0.25	0.13	mg/L	5		6020	Total
Total Dissolved Solids	50		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	7.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	5.07				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-144842-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1.1		0.25	0.13	mg/L	5		6020	Total
Total Dissolved Solids	28		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	6.3		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-6 (Continued)

Lab Sample ID: 400-144842-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	4.63				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-144842-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	50		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	15		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.49				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-144842-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	2.3		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	28		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.8		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.81				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-144842-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	34		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	7.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.96				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-144842-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.022	J	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	0.55		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	20		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	4.0		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Field pH	4.97				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-03

Lab Sample ID: 400-144842-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	32		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	6.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: FB-03

Lab Sample ID: 400-144842-12

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: EB-03

Lab Sample ID: 400-144842-13

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 F C	Fluoride	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
Field Sampling	Field Sampling	EPA	TAL PEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-144842-1	MW-1	Water	10/18/17 10:40	10/19/17 09:40
400-144842-2	MW-2	Water	10/18/17 12:25	10/19/17 09:40
400-144842-3	MW-3	Water	10/17/17 15:03	10/19/17 09:40
400-144842-4	MW-4	Water	10/18/17 08:47	10/19/17 09:40
400-144842-5	MW-5	Water	10/18/17 09:33	10/19/17 09:40
400-144842-6	MW-6	Water	10/18/17 07:32	10/19/17 09:40
400-144842-7	MW-7	Water	10/18/17 14:56	10/19/17 09:40
400-144842-8	MW-8	Water	10/18/17 14:16	10/19/17 09:40
400-144842-9	MW-9	Water	10/18/17 13:35	10/19/17 09:40
400-144842-10	MW-10	Water	10/18/17 11:37	10/19/17 09:40
400-144842-11	DUP-03	Water	10/18/17 06:32	10/19/17 09:40
400-144842-12	FB-03	Water	10/18/17 14:00	10/19/17 09:40
400-144842-13	EB-03	Water	10/18/17 15:03	10/19/17 09:40

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-1
Date Collected: 10/18/17 10:40
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 18:12	5
Calcium	7.6		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 18:12	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	70		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	6.6		2.0	0.60	mg/L			10/31/17 09:42	1
Fluoride	0.040	J	0.10	0.032	mg/L			11/02/17 12:44	1
Sulfate	8.0		5.0	1.4	mg/L			10/31/17 13:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.55				SU			10/18/17 10:40	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-2
Date Collected: 10/18/17 12:25
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 18:34	5
Calcium	1.3		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 18:34	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	8.6		2.0	0.60	mg/L			10/31/17 09:42	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 12:50	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 13:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.92				SU			10/18/17 12:25	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-3
Date Collected: 10/17/17 15:03
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-3
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 18:39	5
Calcium	1.3		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 18:39	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	60		5.0	3.4	mg/L			10/21/17 17:05	1
Chloride	9.8		2.0	0.60	mg/L			10/31/17 09:42	1
Fluoride	0.050	J	0.10	0.032	mg/L			11/02/17 10:57	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 13:59	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.51				SU			10/17/17 15:03	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
 SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-4
Date Collected: 10/18/17 08:47
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 18:43	5
Calcium	2.1		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 18:43	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	54		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	9.5		2.0	0.60	mg/L			10/31/17 09:43	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 12:53	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 14:01	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.78				SU			10/18/17 08:47	1



Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
 SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-5
Date Collected: 10/18/17 09:33
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-5
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 19:10	5
Calcium	2.3		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 19:10	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	7.6		2.0	0.60	mg/L			10/31/17 09:43	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 12:56	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 14:01	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.07				SU			10/18/17 09:33	1

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Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
 SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-6
Date Collected: 10/18/17 07:32
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-6
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 19:15	5
Calcium	1.1		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 19:15	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	28		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	6.3		2.0	0.60	mg/L			10/31/17 11:58	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 12:59	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 16:12	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.63				SU			10/18/17 07:32	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-7
Date Collected: 10/18/17 14:56
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-7
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 19:19	5
Calcium	1.9		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 19:19	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	50		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	15		2.0	0.60	mg/L			10/31/17 11:59	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 13:02	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.49				SU			10/18/17 14:56	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-8
Date Collected: 10/18/17 14:16
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-8
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 19:24	5
Calcium	2.3		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 19:24	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	28		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	7.8		2.0	0.60	mg/L			10/31/17 11:59	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 13:05	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.81				SU			10/18/17 14:16	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-9
Date Collected: 10/18/17 13:35
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-9
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 19:28	5
Calcium	1.2		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 19:28	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	34		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	7.0		2.0	0.60	mg/L			10/31/17 11:59	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 13:08	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.96				SU			10/18/17 13:35	1

Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-10
Date Collected: 10/18/17 11:37
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-10
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.022	J	0.050	0.021	mg/L	-	10/22/17 12:44	10/25/17 19:33	5
Calcium	0.55		0.25	0.13	mg/L	-	10/22/17 12:44	10/25/17 19:33	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20		5.0	3.4	mg/L	-		10/22/17 12:47	1
Chloride	4.0		2.0	0.60	mg/L	-		10/31/17 11:59	1
Fluoride	<0.032		0.10	0.032	mg/L	-		11/02/17 13:16	1
Sulfate	<1.4		5.0	1.4	mg/L	-		10/31/17 16:13	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.97				SU	-		10/18/17 11:37	1

Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
 SDG: Plant Daniel Gypsum App III

Client Sample ID: DUP-03
Date Collected: 10/18/17 06:32
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-11
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 19:37	5
Calcium	1.2		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 19:37	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	32		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	6.6		2.0	0.60	mg/L			10/31/17 11:59	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 13:22	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 16:13	1



Client Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
 SDG: Plant Daniel Gypsum App III

Client Sample ID: FB-03
Date Collected: 10/18/17 14:00
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-12
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 19:42	5
Calcium	<0.13		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 19:42	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	<0.60		2.0	0.60	mg/L			10/31/17 11:59	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 13:24	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 16:13	1



Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: EB-03
Date Collected: 10/18/17 15:03
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-13
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 19:46	5
Calcium	<0.13		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 19:46	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/22/17 12:47	1
Chloride	<0.60		2.0	0.60	mg/L			10/31/17 11:59	1
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 13:28	1
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 16:13	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-1
Date Collected: 10/18/17 10:40
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 18:12	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374065	10/31/17 09:42	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 12:44	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374149	10/31/17 13:59	JLB	TAL PEN
Total/NA	Analysis	Field Sampling		1	374030	10/18/17 10:40	BWS	TAL PEN

Client Sample ID: MW-2
Date Collected: 10/18/17 12:25
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 18:34	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374065	10/31/17 09:42	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 12:50	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374149	10/31/17 13:59	JLB	TAL PEN
Total/NA	Analysis	Field Sampling		1	374030	10/18/17 12:25	BWS	TAL PEN

Client Sample ID: MW-3
Date Collected: 10/17/17 15:03
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 18:39	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372779	10/21/17 17:05	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374065	10/31/17 09:42	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374406	11/02/17 10:57	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374149	10/31/17 13:59	JLB	TAL PEN
Total/NA	Analysis	Field Sampling		1	374030	10/17/17 15:03	BWS	TAL PEN

Client Sample ID: MW-4
Date Collected: 10/18/17 08:47
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 18:43	DRE	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-4
Date Collected: 10/18/17 08:47
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374065	10/31/17 09:43	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 12:53	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374149	10/31/17 14:01	JLB	TAL PEN
Total/NA	Analysis	Field Sampling		1	374030	10/18/17 08:47	BWS	TAL PEN

Client Sample ID: MW-5
Date Collected: 10/18/17 09:33
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 19:10	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374065	10/31/17 09:43	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 12:56	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374149	10/31/17 14:01	JLB	TAL PEN
Total/NA	Analysis	Field Sampling		1	374030	10/18/17 09:33	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 10/18/17 07:32
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 19:15	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374092	10/31/17 11:58	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 12:59	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374162	10/31/17 16:12	JLB	TAL PEN
Total/NA	Analysis	Field Sampling		1	374030	10/18/17 07:32	BWS	TAL PEN

Client Sample ID: MW-7
Date Collected: 10/18/17 14:56
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 19:19	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374092	10/31/17 11:59	JLB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-7
Date Collected: 10/18/17 14:56
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 13:02	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374162	10/31/17 16:13	JLB	TAL PEN
Total/NA	Analysis	Field Sampling		1	374030	10/18/17 14:56	BWS	TAL PEN

Client Sample ID: MW-8
Date Collected: 10/18/17 14:16
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 19:24	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	374092	10/31/17 11:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 13:05	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374162	10/31/17 16:13	JLB	TAL PEN
Total/NA	Analysis	Field Sampling		1	374030	10/18/17 14:16	BWS	TAL PEN

Client Sample ID: MW-9
Date Collected: 10/18/17 13:35
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 19:28	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	374092	10/31/17 11:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 13:08	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374162	10/31/17 16:13	JLB	TAL PEN
Total/NA	Analysis	Field Sampling		1	374030	10/18/17 13:35	BWS	TAL PEN

Client Sample ID: MW-10
Date Collected: 10/18/17 11:37
Date Received: 10/19/17 09:40

Lab Sample ID: 400-144842-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 19:33	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	374092	10/31/17 11:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 13:16	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374162	10/31/17 16:13	JLB	TAL PEN

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Client Sample ID: MW-10

Lab Sample ID: 400-144842-10

Date Collected: 10/18/17 11:37

Matrix: Water

Date Received: 10/19/17 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	374030	10/18/17 11:37	BWS	TAL PEN

Client Sample ID: DUP-03

Lab Sample ID: 400-144842-11

Date Collected: 10/18/17 06:32

Matrix: Water

Date Received: 10/19/17 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 19:37	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374092	10/31/17 11:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 13:22	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374162	10/31/17 16:13	JLB	TAL PEN

Client Sample ID: FB-03

Lab Sample ID: 400-144842-12

Date Collected: 10/18/17 14:00

Matrix: Water

Date Received: 10/19/17 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 19:42	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374092	10/31/17 11:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 13:24	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374162	10/31/17 16:13	JLB	TAL PEN

Client Sample ID: EB-03

Lab Sample ID: 400-144842-13

Date Collected: 10/18/17 15:03

Matrix: Water

Date Received: 10/19/17 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372815	10/22/17 12:44	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	373392	10/25/17 19:46	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372808	10/22/17 12:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	374092	10/31/17 11:59	JLB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374452	11/02/17 13:28	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	374162	10/31/17 16:13	JLB	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Metals

Prep Batch: 372815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-1	MW-1	Total Recoverable	Water	3005A	
400-144842-2	MW-2	Total Recoverable	Water	3005A	
400-144842-3	MW-3	Total Recoverable	Water	3005A	
400-144842-4	MW-4	Total Recoverable	Water	3005A	
400-144842-5	MW-5	Total Recoverable	Water	3005A	
400-144842-6	MW-6	Total Recoverable	Water	3005A	
400-144842-7	MW-7	Total Recoverable	Water	3005A	
400-144842-8	MW-8	Total Recoverable	Water	3005A	
400-144842-9	MW-9	Total Recoverable	Water	3005A	
400-144842-10	MW-10	Total Recoverable	Water	3005A	
400-144842-11	DUP-03	Total Recoverable	Water	3005A	
400-144842-12	FB-03	Total Recoverable	Water	3005A	
400-144842-13	EB-03	Total Recoverable	Water	3005A	
MB 400-372815/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-372815/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-144842-1 MS	MW-1	Total Recoverable	Water	3005A	
400-144842-1 MSD	MW-1	Total Recoverable	Water	3005A	

Analysis Batch: 373392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-1	MW-1	Total Recoverable	Water	6020	372815
400-144842-2	MW-2	Total Recoverable	Water	6020	372815
400-144842-3	MW-3	Total Recoverable	Water	6020	372815
400-144842-4	MW-4	Total Recoverable	Water	6020	372815
400-144842-5	MW-5	Total Recoverable	Water	6020	372815
400-144842-6	MW-6	Total Recoverable	Water	6020	372815
400-144842-7	MW-7	Total Recoverable	Water	6020	372815
400-144842-8	MW-8	Total Recoverable	Water	6020	372815
400-144842-9	MW-9	Total Recoverable	Water	6020	372815
400-144842-10	MW-10	Total Recoverable	Water	6020	372815
400-144842-11	DUP-03	Total Recoverable	Water	6020	372815
400-144842-12	FB-03	Total Recoverable	Water	6020	372815
400-144842-13	EB-03	Total Recoverable	Water	6020	372815
MB 400-372815/1-A ^5	Method Blank	Total Recoverable	Water	6020	372815
LCS 400-372815/2-A	Lab Control Sample	Total Recoverable	Water	6020	372815
400-144842-1 MS	MW-1	Total Recoverable	Water	6020	372815
400-144842-1 MSD	MW-1	Total Recoverable	Water	6020	372815

General Chemistry

Analysis Batch: 372779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-3	MW-3	Total/NA	Water	SM 2540C	
MB 400-372779/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-372779/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144842-3 DU	MW-3	Total/NA	Water	SM 2540C	

Analysis Batch: 372808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-1	MW-1	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

General Chemistry (Continued)

Analysis Batch: 372808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-2	MW-2	Total/NA	Water	SM 2540C	
400-144842-4	MW-4	Total/NA	Water	SM 2540C	
400-144842-5	MW-5	Total/NA	Water	SM 2540C	
400-144842-6	MW-6	Total/NA	Water	SM 2540C	
400-144842-7	MW-7	Total/NA	Water	SM 2540C	
400-144842-8	MW-8	Total/NA	Water	SM 2540C	
400-144842-9	MW-9	Total/NA	Water	SM 2540C	
400-144842-10	MW-10	Total/NA	Water	SM 2540C	
400-144842-11	DUP-03	Total/NA	Water	SM 2540C	
400-144842-12	FB-03	Total/NA	Water	SM 2540C	
400-144842-13	EB-03	Total/NA	Water	SM 2540C	
MB 400-372808/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-372808/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144842-5 DU	MW-5	Total/NA	Water	SM 2540C	
400-144842-9 DU	MW-9	Total/NA	Water	SM 2540C	

Analysis Batch: 374065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-1	MW-1	Total/NA	Water	SM 4500 CI- E	
400-144842-2	MW-2	Total/NA	Water	SM 4500 CI- E	
400-144842-3	MW-3	Total/NA	Water	SM 4500 CI- E	
400-144842-4	MW-4	Total/NA	Water	SM 4500 CI- E	
400-144842-5	MW-5	Total/NA	Water	SM 4500 CI- E	
MB 400-374065/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-374065/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-374065/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-144723-A-154 MS	Matrix Spike	Total/NA	Water	SM 4500 CI- E	
400-144723-A-154 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 374092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-6	MW-6	Total/NA	Water	SM 4500 CI- E	
400-144842-7	MW-7	Total/NA	Water	SM 4500 CI- E	
400-144842-8	MW-8	Total/NA	Water	SM 4500 CI- E	
400-144842-9	MW-9	Total/NA	Water	SM 4500 CI- E	
400-144842-10	MW-10	Total/NA	Water	SM 4500 CI- E	
400-144842-11	DUP-03	Total/NA	Water	SM 4500 CI- E	
400-144842-12	FB-03	Total/NA	Water	SM 4500 CI- E	
400-144842-13	EB-03	Total/NA	Water	SM 4500 CI- E	
MB 400-374092/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-374092/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-374092/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-144842-6 MS	MW-6	Total/NA	Water	SM 4500 CI- E	
400-144842-6 MSD	MW-6	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 374149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-1	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-144842-2	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-144842-3	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-144842-4	MW-4	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

General Chemistry (Continued)

Analysis Batch: 374149 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-5	MW-5	Total/NA	Water	SM 4500 SO4 E	
MB 400-374149/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-374149/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-374149/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-144723-A-159 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-144723-A-159 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 374162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-6	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-144842-7	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-144842-8	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-144842-9	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-144842-10	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-144842-11	DUP-03	Total/NA	Water	SM 4500 SO4 E	
400-144842-12	FB-03	Total/NA	Water	SM 4500 SO4 E	
400-144842-13	EB-03	Total/NA	Water	SM 4500 SO4 E	
MB 400-374162/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-374162/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-374162/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 374406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-3	MW-3	Total/NA	Water	SM 4500 F C	
MB 400-374406/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-374406/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-144837-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-144837-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-144837-A-2 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 374452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-1	MW-1	Total/NA	Water	SM 4500 F C	
400-144842-2	MW-2	Total/NA	Water	SM 4500 F C	
400-144842-4	MW-4	Total/NA	Water	SM 4500 F C	
400-144842-5	MW-5	Total/NA	Water	SM 4500 F C	
400-144842-6	MW-6	Total/NA	Water	SM 4500 F C	
400-144842-7	MW-7	Total/NA	Water	SM 4500 F C	
400-144842-8	MW-8	Total/NA	Water	SM 4500 F C	
400-144842-9	MW-9	Total/NA	Water	SM 4500 F C	
400-144842-10	MW-10	Total/NA	Water	SM 4500 F C	
400-144842-11	DUP-03	Total/NA	Water	SM 4500 F C	
400-144842-12	FB-03	Total/NA	Water	SM 4500 F C	
400-144842-13	EB-03	Total/NA	Water	SM 4500 F C	
MB 400-374452/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-374452/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-144842-1 MS	MW-1	Total/NA	Water	SM 4500 F C	
400-144842-1 MSD	MW-1	Total/NA	Water	SM 4500 F C	
400-144842-10 DU	MW-10	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Field Service / Mobile Lab

Analysis Batch: 374030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144842-1	MW-1	Total/NA	Water	Field Sampling	
400-144842-2	MW-2	Total/NA	Water	Field Sampling	
400-144842-3	MW-3	Total/NA	Water	Field Sampling	
400-144842-4	MW-4	Total/NA	Water	Field Sampling	
400-144842-5	MW-5	Total/NA	Water	Field Sampling	
400-144842-6	MW-6	Total/NA	Water	Field Sampling	
400-144842-7	MW-7	Total/NA	Water	Field Sampling	
400-144842-8	MW-8	Total/NA	Water	Field Sampling	
400-144842-9	MW-9	Total/NA	Water	Field Sampling	
400-144842-10	MW-10	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-372815/1-A ^5
Matrix: Water
Analysis Batch: 373392

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 372815

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.021		0.050	0.021	mg/L		10/22/17 12:44	10/25/17 17:58	5
Calcium	<0.13		0.25	0.13	mg/L		10/22/17 12:44	10/25/17 17:58	5

Lab Sample ID: LCS 400-372815/2-A
Matrix: Water
Analysis Batch: 373392

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 372815

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.100	0.0972		mg/L		97	80 - 120
Calcium	5.00	5.10		mg/L		102	80 - 120

Lab Sample ID: 400-144842-1 MS
Matrix: Water
Analysis Batch: 373392

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 372815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	<0.021		0.100	0.117		mg/L		117	75 - 125
Calcium	7.6		5.00	12.8		mg/L		104	75 - 125

Lab Sample ID: 400-144842-1 MSD
Matrix: Water
Analysis Batch: 373392

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 372815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	<0.021		0.100	0.118		mg/L		118	75 - 125	1	20
Calcium	7.6		5.00	12.9		mg/L		108	75 - 125	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-372779/1
Matrix: Water
Analysis Batch: 372779

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/21/17 17:05	1

Lab Sample ID: LCS 400-372779/2
Matrix: Water
Analysis Batch: 372779

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	304		mg/L		104	78 - 122

Lab Sample ID: 400-144842-3 DU
Matrix: Water
Analysis Batch: 372779

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	60		60.0		mg/L		0	5

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 400-372808/1
Matrix: Water
Analysis Batch: 372808

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<3.4		5.0	3.4	mg/L			10/22/17 12:47	1

Lab Sample ID: LCS 400-372808/2
Matrix: Water
Analysis Batch: 372808

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	330		mg/L		113	78 - 122

Lab Sample ID: 400-144842-5 DU
Matrix: Water
Analysis Batch: 372808

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	50		50.0		mg/L		0	5

Lab Sample ID: 400-144842-9 DU
Matrix: Water
Analysis Batch: 372808

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	34		34.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-374065/6
Matrix: Water
Analysis Batch: 374065

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			10/31/17 09:17	1

Lab Sample ID: LCS 400-374065/7
Matrix: Water
Analysis Batch: 374065

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.7		mg/L		102	90 - 110

Lab Sample ID: MRL 400-374065/3
Matrix: Water
Analysis Batch: 374065

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	2.11		mg/L		105	50 - 150

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 400-144723-A-154 MS
Matrix: Water
Analysis Batch: 374065

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1.8	J	10.0	12.4		mg/L		105	73 - 120

Lab Sample ID: 400-144723-A-154 MSD
Matrix: Water
Analysis Batch: 374065

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1.8	J	10.0	12.2		mg/L		104	73 - 120	1	8

Lab Sample ID: MB 400-374092/6
Matrix: Water
Analysis Batch: 374092

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.60		2.0	0.60	mg/L			10/31/17 11:55	1

Lab Sample ID: LCS 400-374092/7
Matrix: Water
Analysis Batch: 374092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.3		mg/L		104	90 - 110

Lab Sample ID: MRL 400-374092/3
Matrix: Water
Analysis Batch: 374092

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.72	J	mg/L		86	50 - 150

Lab Sample ID: 400-144842-6 MS
Matrix: Water
Analysis Batch: 374092

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.3		10.0	17.1		mg/L		108	73 - 120

Lab Sample ID: 400-144842-6 MSD
Matrix: Water
Analysis Batch: 374092

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.3		10.0	17.1		mg/L		109	73 - 120	0	8

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-374406/3
Matrix: Water
Analysis Batch: 374406

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 10:03	1

Lab Sample ID: LCS 400-374406/4
Matrix: Water
Analysis Batch: 374406

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.75		mg/L		94	90 - 110

Lab Sample ID: 400-144837-A-1 MS
Matrix: Water
Analysis Batch: 374406

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.55		1.00	1.59		mg/L		104	75 - 125

Lab Sample ID: 400-144837-A-1 MSD
Matrix: Water
Analysis Batch: 374406

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.55		1.00	1.59		mg/L		104	75 - 125	0	4

Lab Sample ID: 400-144837-A-2 DU
Matrix: Water
Analysis Batch: 374406

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.36		0.360		mg/L		0	4

Lab Sample ID: MB 400-374452/3
Matrix: Water
Analysis Batch: 374452

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.032		0.10	0.032	mg/L			11/02/17 12:36	1

Lab Sample ID: LCS 400-374452/4
Matrix: Water
Analysis Batch: 374452

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	4.00	3.68		mg/L		92	90 - 110

Lab Sample ID: 400-144842-1 MS
Matrix: Water
Analysis Batch: 374452

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.040	J	1.00	1.02		mg/L		98	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Lab Sample ID: 400-144842-1 MSD
Matrix: Water
Analysis Batch: 374452

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.040	J	1.00	1.02		mg/L		98	75 - 125	0	4

Lab Sample ID: 400-144842-10 DU
Matrix: Water
Analysis Batch: 374452

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	<0.032		<0.032		mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-374149/6
Matrix: Water
Analysis Batch: 374149

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 13:43	1

Lab Sample ID: LCS 400-374149/7
Matrix: Water
Analysis Batch: 374149

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	13.7		mg/L		92	90 - 110

Lab Sample ID: MRL 400-374149/3
Matrix: Water
Analysis Batch: 374149

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	3.91	J	mg/L		78	50 - 150

Lab Sample ID: 400-144723-A-159 MS
Matrix: Water
Analysis Batch: 374149

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<1.4	F1 F2	10.0	7.10	F1	mg/L		71	77 - 128

Lab Sample ID: 400-144723-A-159 MSD
Matrix: Water
Analysis Batch: 374149

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<1.4	F1 F2	10.0	9.40	F2	mg/L		94	77 - 128	28	5

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
 SDG: Plant Daniel Gypsum App III

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: MB 400-374162/6
Matrix: Water
Analysis Batch: 374162

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			10/31/17 15:59	1

Lab Sample ID: LCS 400-374162/7
Matrix: Water
Analysis Batch: 374162

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



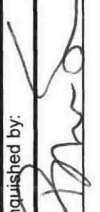
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	13.8		mg/L		92	90 - 110

Lab Sample ID: MRL 400-374162/3
Matrix: Water
Analysis Batch: 374162

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	3.83	J	mg/L		77	50 - 150

Chain of Custody Record

Client Information Mr. Cale Sellers Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) Email: CBSELLER@SOUTHERNCO.COM Project Name: CCR -Plant Daniel Gypsum App III Site: Mississippi		Lab PM: Whitmire, Chyenne R E-Mail: chyenme.whitmire@testamericainc.com Carrier Tracking No(s): Lab No: 400-68549-27818-1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): PO #: SCS10347656 WO #: Project #: 40006621 SOW#:		Analysis Requested  400-144842 COC	
Sample Identification MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 Dup-03		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> D Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> D 6020 - Boron & Calcium Field Sampling - Field pH Total Number of Containers	
Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oli, B=BIOTISSUE, AA=AP)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Special Instructions/Note: Special Instructions/QC Requirements: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements: Method of Shipment: Received by:  Date/Time: 10/19/17 940 Company: TA Received by: Date/Time: Company: Received by: Date/Time: Company:	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:  Date: 10/19/17 0840 Company: RSTH Relinquished by: Date/Time: Company: Relinquished by: Date/Time: Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: 0.0°C IR9		Custody Seal No.:	



Chain of Custody Record

<p>Client Information</p> <p>Company: Southern Company Address: PO BOX 2641 GSC8 City: Birmingham State, Zip: AL, 35291 Phone: 205-992-7762(Tel) Email: CBSSELLER@SOUTHERNCO.COM Project Name: CCR -Plant Daniel Gypsum App III Site: Mississippi</p>		<p>Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com</p>		<p>Carrier Tracking No(s): COC No: 400-68549-27818.1 Page: Page 1 of 1 Job #:</p>	
<p>Sampler: Brett Surles Phone: 850 380 3458</p>		<p>Analysis Requested</p>			
<p>Due Date Requested:</p> <p>TAT Requested (days):</p> <p>PO #: SCS10347656 WO #:</p> <p>Project #: 40006621 SSOW#:</p>		<p>Preservation Codes:</p> <p>A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:</p>			
<p>Sample Identification</p> <p>FB-03 EB-03</p>		<p>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Field Sampling - Field pH</p>			
<p>Sample Date</p> <p>10/18/17 10/18/17</p>		<p>SM4500 Cl⁻ Chloride, SM4500 SO₄²⁻ Sulfate, 4500 F⁻ Fluoride, 2540C - Total Dissolved Solids</p>			
<p>Sample Time</p> <p>1400 1503</p>		<p>6020 - Boron & Calcium</p>			
<p>Sample Type (C=Comp, G=grab)</p> <p>G G</p>		<p>Perform MS/MSD (Yes or No)</p>			
<p>Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=Air)</p> <p>Water Water Water Water Water Water Water Water Water</p>		<p>Special Instructions/Note:</p>			
<p>Possible Hazard Identification</p> <p><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p>		<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>			
<p>Deliverable Requested: I, II, III, IV, Other (specify)</p>		<p>Special Instructions/QC Requirements:</p>			
<p>Empty Kit Relinquished by:</p> <p>Relinquished by: <i>Bau</i> Relinquished by: _____ Relinquished by: _____</p>		<p>Method of Shipment:</p>			
<p>Date:</p> <p>10/19/17 10/19/17 10/19/17</p>		<p>Received by:</p> <p>Received by: <i>[Signature]</i> Received by: _____ Received by: _____</p>			
<p>Company:</p> <p>Company: <i>[Signature]</i> Company: _____ Company: _____</p>		<p>Company:</p> <p>Company: <i>TA</i> Company: _____ Company: _____</p>			
<p>Custody Seals Intact:</p> <p>Δ Yes Δ No</p>		<p>Cooler Temperature(s) °C and Other Remarks:</p>			



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-144842-1
SDG Number: Plant Daniel Gypsum App III

Login Number: 144842

List Number: 1

Creator: Perez, Trina M

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-144842-1
SDG: Plant Daniel Gypsum App III

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	12-31-17
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-17
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-17
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-18
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-17-12	09-30-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pensacola

3355 McLemore Drive

Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-147462-1

TestAmerica Sample Delivery Group: Gypsum

Client Project/Site: CCR -Plant Daniel

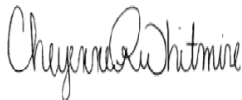
For:

Southern Company

PO BOX 2641 GSC8

Birmingham, Alabama 35291

Attn: Mr. Cale B. Sellers



Authorized for release by:

12/26/2017 5:50:16 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Job ID: 400-147462-1

Laboratory: TestAmerica Pensacola

Narrative

**Job Narrative
400-147462-1**

General Chemistry

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 380650 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) SM 4500 SO4 E: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 380650 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of sulfate in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

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Detection Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Client Sample ID: MW-2

Lab Sample ID: 400-147462-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	1.0		0.25	0.13	mg/L	5			6020	Total Recoverable

Client Sample ID: MW-9

Lab Sample ID: 400-147462-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Calcium	1.1		0.25	0.13	mg/L	5			6020	Total Recoverable

Client Sample ID: MW-1

Lab Sample ID: 400-147462-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Sulfate	7.7		5.0	1.4	mg/L	1			SM 4500 SO4 E	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 400-147462-4

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Method	Method Description	Protocol	Laboratory
6020	Metals (ICP/MS)	SW846	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Sample Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-147462-1	MW-2	Water	12/16/17 13:10	12/18/17 09:24
400-147462-2	MW-9	Water	12/16/17 14:33	12/18/17 09:24
400-147462-3	MW-1	Water	12/16/17 15:44	12/18/17 09:24
400-147462-4	EB-01	Water	12/16/17 13:25	12/18/17 09:24

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Client Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 12/16/17 13:10
Date Received: 12/18/17 09:24

Lab Sample ID: 400-147462-1
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1.0		0.25	0.13	mg/L		12/19/17 08:35	12/19/17 19:07	5

Client Sample ID: MW-9
Date Collected: 12/16/17 14:33
Date Received: 12/18/17 09:24

Lab Sample ID: 400-147462-2
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	1.1		0.25	0.13	mg/L		12/19/17 08:35	12/19/17 19:29	5

Client Sample ID: MW-1
Date Collected: 12/16/17 15:44
Date Received: 12/18/17 09:24

Lab Sample ID: 400-147462-3
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7.7		5.0	1.4	mg/L			12/21/17 13:48	1

Client Sample ID: EB-01
Date Collected: 12/16/17 13:25
Date Received: 12/18/17 09:24

Lab Sample ID: 400-147462-4
Matrix: Water

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.25	0.13	mg/L		12/19/17 08:35	12/19/17 19:34	5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			12/21/17 13:48	1

Definitions/Glossary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Lab Chronicle

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Client Sample ID: MW-2
Date Collected: 12/16/17 13:10
Date Received: 12/18/17 09:24

Lab Sample ID: 400-147462-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			380230	12/19/17 08:35	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	380407	12/19/17 19:07	DRE	TAL PEN

Client Sample ID: MW-9
Date Collected: 12/16/17 14:33
Date Received: 12/18/17 09:24

Lab Sample ID: 400-147462-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			380230	12/19/17 08:35	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	380407	12/19/17 19:29	DRE	TAL PEN

Client Sample ID: MW-1
Date Collected: 12/16/17 15:44
Date Received: 12/18/17 09:24

Lab Sample ID: 400-147462-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	380650	12/21/17 13:48	RRC	TAL PEN

Client Sample ID: EB-01
Date Collected: 12/16/17 13:25
Date Received: 12/18/17 09:24

Lab Sample ID: 400-147462-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			380230	12/19/17 08:35	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	380407	12/19/17 19:34	DRE	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	380650	12/21/17 13:48	RRC	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

QC Association Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Metals

Prep Batch: 380230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147462-1	MW-2	Total Recoverable	Water	3005A	
400-147462-2	MW-9	Total Recoverable	Water	3005A	
400-147462-4	EB-01	Total Recoverable	Water	3005A	
MB 400-380230/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-380230/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-147462-1 MS	MW-2	Total Recoverable	Water	3005A	
400-147462-1 MSD	MW-2	Total Recoverable	Water	3005A	

Analysis Batch: 380407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147462-1	MW-2	Total Recoverable	Water	6020	380230
400-147462-2	MW-9	Total Recoverable	Water	6020	380230
400-147462-4	EB-01	Total Recoverable	Water	6020	380230
MB 400-380230/1-A ^5	Method Blank	Total Recoverable	Water	6020	380230
LCS 400-380230/2-A	Lab Control Sample	Total Recoverable	Water	6020	380230
400-147462-1 MS	MW-2	Total Recoverable	Water	6020	380230
400-147462-1 MSD	MW-2	Total Recoverable	Water	6020	380230

General Chemistry

Analysis Batch: 380650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147462-3	MW-1	Total/NA	Water	SM 4500 SO4 E	
400-147462-4	EB-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-380650/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-380650/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-380650/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-147468-A-5 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-147468-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-380230/1-A ^5
Matrix: Water
Analysis Batch: 380407

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 380230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.13		0.25	0.13	mg/L		12/19/17 08:35	12/19/17 18:53	5

Lab Sample ID: LCS 400-380230/2-A
Matrix: Water
Analysis Batch: 380407

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 380230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	5.00	5.41		mg/L		108	80 - 120

Lab Sample ID: 400-147462-1 MS
Matrix: Water
Analysis Batch: 380407

Client Sample ID: MW-2
Prep Type: Total Recoverable
Prep Batch: 380230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	1.0		5.00	6.69		mg/L		113	75 - 125

Lab Sample ID: 400-147462-1 MSD
Matrix: Water
Analysis Batch: 380407

Client Sample ID: MW-2
Prep Type: Total Recoverable
Prep Batch: 380230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Calcium	1.0		5.00	6.74		mg/L		114	75 - 125	1	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-380650/6
Matrix: Water
Analysis Batch: 380650

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.4		5.0	1.4	mg/L			12/21/17 12:15	1

Lab Sample ID: LCS 400-380650/7
Matrix: Water
Analysis Batch: 380650

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.0		mg/L		94	90 - 110

Lab Sample ID: MRL 400-380650/3
Matrix: Water
Analysis Batch: 380650

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.26	J	mg/L		85	50 - 150

QC Sample Results

Client: Southern Company
 Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
 SDG: Gypsum

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 400-147468-A-5 MS
Matrix: Water
Analysis Batch: 380650

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	35	F1	10.0	40.9	F1	mg/L		59	77 - 128


Lab Sample ID: 400-147468-A-5 MSD
Matrix: Water
Analysis Batch: 380650

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	35	F1	10.0	42.6	F1	mg/L		76	77 - 128	4	5



Chain of Custody Record

Client Information Sampler: <i>Rita Hayden</i> Lab PM: Whitmire, Cheyenne R Phone: <i>850-336-0192</i> E-Mail: cheyenne.whitmire@testamericainc.com		COC No: 400-56518-24532.1 Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days):		Carrier Tracking No(s):	
Address: PO BOX 2641 GSC8 Birmingham State, Zip: AL, 35291		Analysis Requested	
Phone: 205-992-7762(Tel) Email: CBSSELLER@SOUTHERNCO.COM		QR Code:  400-147462 COC	
Project Name: CCR -Plant Daniel Site: Gypsum		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
PO #: SCS10347656 WO #:		Total Number of containers	
Sample Identification MW-2 MW-9 MW-5 - FOR MW-1 ES-01		Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) SM4500_S04_E 6020 - Ca PF	
Sample Date 12-16-17 12-16-17 12-16-17 12-16-17	Sample Time 1310 1433 1544 1325	Sample Type (C=comp, G=grab) G G G G	Matrix (W=water, S=solid, O=water/oil) Water Water Water Water Water Water Water Water Water
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Special Instructions/Note: PH BAN IN THE FIELD	
Deliverable Requested: <input type="checkbox"/> I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>[Signature]</i> Date/Time: 12-18-17 0855 Company: ADH		Received by: <i>[Signature]</i> Date/Time: 12-18-17 0855 Company: ADH	
Relinquished by: <i>[Signature]</i> Date/Time: 12-18-17 0924 Company: ADH		Received by: <i>[Signature]</i> Date/Time: 12-18-17 0924 Company: ADH	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and other Remarks:	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 400-147462-1

SDG Number: Gypsum

Login Number: 147462

List Number: 1

Creator: Johnson, Jeremy N

List Source: TestAmerica Pensacola

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Southern Company
Project/Site: CCR -Plant Daniel

TestAmerica Job ID: 400-147462-1
SDG: Gypsum

Laboratory: TestAmerica Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alabama	State Program	4	40150	06-30-18
Arizona	State Program	9	AZ0710	01-11-18
Arkansas DEQ	State Program	6	88-0689	09-01-18
California	ELAP	9	2510	03-31-18
Florida	NELAP	4	E81010	06-30-18
Georgia	State Program	4	N/A	06-30-18
Illinois	NELAP	5	200041	10-09-18
Iowa	State Program	7	367	08-01-18
Kansas	NELAP	7	E-10253	12-31-17
Kentucky (UST)	State Program	4	53	06-30-18
Kentucky (WW)	State Program	4	98030	12-31-18
L-A-B	ISO/IEC 17025		L2471	02-22-20
Louisiana	NELAP	6	30976	06-30-18
Louisiana (DW)	NELAP	6	LA170005	12-31-17
Maryland	State Program	3	233	09-30-18
Massachusetts	State Program	1	M-FL094	06-30-18
Michigan	State Program	5	9912	06-30-18
New Jersey	NELAP	2	FL006	06-30-18
North Carolina (WW/SW)	State Program	4	314	12-31-18
Oklahoma	State Program	6	9810	08-31-18
Pennsylvania	NELAP	3	68-00467	01-31-18
Rhode Island	State Program	1	LAO00307	12-30-17
South Carolina	State Program	4	96026	06-30-18
Tennessee	State Program	4	TN02907	06-30-18
Texas	NELAP	6	T104704286-17-12	09-30-18
USDA	Federal		P330-16-00172	05-24-19
Virginia	NELAP	3	460166	06-14-18
Washington	State Program	10	C915	05-15-18
West Virginia DEP	State Program	3	136	06-30-18



Product Name: Low-Flow System

Date: 2016-03-22 12:21:11

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 54 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 18.45 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3310249 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 6.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:05:48	240.03	20.97	5.17	121.67	1.72	18.47	6.46	122.24
Last 5	12:09:48	480.02	20.49	5.05	119.46	1.46	18.47	6.64	119.42
Last 5	12:13:48	720.02	20.39	4.95	118.54	1.36	18.48	6.73	117.91
Last 5	12:17:48	960.02	20.38	4.97	118.46	2.31	18.48	6.74	116.49
Last 5									
Variance 0			-0.48	-0.11	-2.20			0.18	-2.82
Variance 1			-0.10	-0.10	-0.92			0.10	-1.51
Variance 2			-0.02	0.01	-0.08			0.01	-1.42

Notes

Sample time 1221. Sunny 64.

Grab Samples

Product Name: Low-Flow System

Date: 2016-03-22 08:52:09

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 53 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 16.79 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3265614 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	08:33:17	240.08	18.78	4.75	41.58	9.59	16.82	6.16	107.31
Last 5	08:37:17	480.03	19.63	4.79	40.14	7.16	16.82	6.16	118.05
Last 5	08:41:17	720.02	19.72	4.80	39.94	6.25	16.82	6.17	122.59
Last 5	08:45:17	960.02	19.78	4.80	39.79	3.65	16.82	6.23	124.43
Last 5	08:49:17	1200.02	19.82	4.81	39.81	2.28	16.82	6.25	126.17
Variance 0			0.10	0.01	-0.21			0.01	4.55
Variance 1			0.05	0.01	-0.14			0.06	1.83
Variance 2			0.04	0.00	0.01			0.01	1.74

Notes

Sample time 0851. Sunny 43.

Grab Samples

Product Name: Low-Flow System

Date: 2016-03-22 09:11:19

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum stacking area
Site Name Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter 0.17 in
Tubing Length 60 ft

Pump placement from TOC 49.25 ft

Well Information:

Well ID MW-03
Well diameter 2 in
Well Total Depth 54.25 ft
Screen Length 10 ft
Depth to Water 20.36 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 in
Total Volume Pumped 14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	08:25:22	900.01	20.72	4.53	59.03	0.73	20.39	5.96	195.64
Last 5	08:30:22	1200.01	20.70	4.51	58.95	0.68	20.40	5.87	194.60
Last 5	08:35:24	1502.01	20.76	4.51	59.50	0.63	20.40	5.70	195.24
Last 5	08:40:24	1802.01	20.77	4.51	60.30	0.67	20.40	5.62	189.33
Last 5	08:45:24	2102.01	20.74	4.51	60.26	0.79	20.40	5.58	188.48
Variance 0			0.07	0.00	0.56			-0.17	0.64
Variance 1			0.01	-0.00	0.80			-0.08	-5.91
Variance 2			-0.02	0.01	-0.04			-0.04	-0.85

Notes

Sampled@0855 temperature: 40 degrees precipitation: none

Grab Samples

Product Name: Low-Flow System

Date: 2016-03-22 11:43:00

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum stacking area
Site Name Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter 0.17 in
Tubing Length 55 ft

Pump placement from TOC 49.3 ft

Well Information:

Well ID MW-4
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 5 ft
Depth to Water 20.26 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:17:40	600.01	21.01	4.89	50.16	0.84	20.26	0.64	163.02
Last 5	11:22:40	900.01	21.01	4.87	47.97	0.74	20.26	0.74	153.11
Last 5	11:27:40	1200.01	21.05	4.89	46.82	0.76	20.26	0.88	146.17
Last 5	11:32:40	1500.03	21.09	4.86	45.49	0.69	20.26	0.95	143.92
Last 5	11:37:40	1800.02	21.05	4.87	44.85	0.68	20.26	1.03	141.32
Variance 0			0.04	0.02	-1.16			0.14	-6.93
Variance 1			0.04	-0.03	-1.33			0.07	-2.26
Variance 2			-0.04	0.01	-0.64			0.09	-2.60

Notes

Temperature: 64 degrees precipitation none. Sampled@1145

Grab Samples

Product Name: Low-Flow System

Date: 2016-03-22 13:01:32

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum stacking area
Site Name Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter 0.17 in
Tubing Length 58 ft

Pump placement from TOC 51.3 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 5 ft
Depth to Water 19.65 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:35:16	300.01	20.72	4.77	49.40	1.70	19.65	3.14	186.01
Last 5	12:40:16	600.01	20.70	4.79	50.68	1.29	19.65	2.86	167.57
Last 5	12:45:16	900.01	20.65	4.81	51.24	1.31	19.65	2.80	157.72
Last 5	12:50:16	1200.01	20.65	4.80	52.14	1.57	19.65	2.65	153.29
Last 5	12:55:16	1500.01	20.71	4.79	52.72	1.49	19.65	2.66	151.88
Variance 0			-0.04	0.02	0.57			-0.06	-9.86
Variance 1			-0.00	-0.01	0.89			-0.15	-4.43
Variance 2			0.05	-0.01	0.58			0.00	-1.41

Notes

Temperature:63 degrees. Precipitation: none. Sampled@1305

Grab Samples

Product Name: Low-Flow System

Date: 2016-03-22 10:19:08

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum stacking area
Site Name Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter 0.17 in
Tubing Length 60 ft

Pump placement from TOC 52.5 ft

Well Information:

Well ID MW-6
Well diameter 2 in
Well Total Depth 56.00 ft
Screen Length 5 ft
Depth to Water 19.63 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.05 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:54:31	600.01	20.95	4.69	50.59	0.93	19.68	0.84	189.21
Last 5	09:59:31	900.01	21.01	4.69	50.58	0.98	19.68	0.85	177.43
Last 5	10:04:32	1201.01	21.05	4.66	50.18	0.77	19.68	0.87	172.57
Last 5	10:09:33	1502.01	21.10	4.68	50.16	0.72	19.68	0.88	167.06
Last 5	10:14:33	1802.01	21.01	4.68	50.55	0.95	19.68	0.89	164.28
Variance 0			0.04	-0.03	-0.40			0.02	-4.86
Variance 1			0.05	0.03	-0.02			0.01	-5.51
Variance 2			-0.09	0.00	0.39			0.01	-2.79

Notes

Temperature: 60 degrees precipitation: none sampled @1025

Grab Samples

Product Name: Low-Flow System

Date: 2016-03-21 15:22:56

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum stacking area
Site Name Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 49.8 ft

Well Information:

Well ID
Well diameter 2 in
Well Total Depth ft
Screen Length ft
Depth to Water ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	14:56:44	300.08	20.21	4.47	83.52	1.71	17.06	7.24	182.12
Last 5	15:01:44	600.01	20.21	4.48	83.64	0.93	17.06	7.19	190.84
Last 5	15:06:44	900.01	20.21	4.48	83.42	1.03	17.06	7.22	191.62
Last 5	15:11:44	1200.02	20.39	4.47	82.91	0.74	17.06	7.14	192.65
Last 5	15:16:44	1500.01	20.34	4.46	82.68	0.82	17.06	7.10	193.41
Variance 0			-0.00	-0.00	-0.22			0.03	0.79
Variance 1			0.18	-0.00	-0.51			-0.08	1.03
Variance 2			-0.04	-0.02	-0.24			-0.04	0.76

Notes

Sampled@ 1525

Grab Samples

Product Name: Low-Flow System

Date: 2016-03-21 17:29:43

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum stacking area
Site Name Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter 0.17 in
Tubing Length 55 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 55.8 ft
Screen Length 10 ft
Depth to Water 16.92 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 24 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	17:06:21	2400.01	20.07	4.95	57.74	0.53	16.95	6.27	149.35
Last 5	17:11:21	2700.01	20.12	4.96	57.95	0.61	16.95	6.22	148.37
Last 5	17:16:21	3000.01	20.08	4.96	57.88	0.73	16.95	6.23	147.56
Last 5	17:21:21	3300.01	20.07	4.97	57.72	0.71	16.95	6.20	146.21
Last 5	17:26:21	3600.01	20.08	4.97	58.30	0.75	16.95	6.16	145.66
Variance 0			-0.04	-0.00	-0.07			0.01	-0.81
Variance 1			-0.01	0.01	-0.16			-0.03	-1.35
Variance 2			0.01	0.00	0.58			-0.04	-0.55

Notes

Sampled@ 1740 temperature 60 degrees. Precipitation: none dup-01@1640

Grab Samples

Product Name: Low-Flow System

Date: 2016-03-21 18:45:17

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 51.2 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 56.2 ft
Screen Length 10 ft
Depth to Water 16.52 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3399517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	18:23:14	1200.02	19.86	4.83	45.40	0.75	16.53	1.34	78.86
Last 5	18:28:14	1500.02	19.77	4.85	45.79	0.57	16.53	1.54	71.90
Last 5	18:33:14	1800.02	19.77	4.86	46.00	0.55	16.53	1.70	67.11
Last 5	18:38:14	2100.02	19.70	4.86	46.14	0.64	16.53	1.78	64.09
Last 5	18:43:14	2400.02	19.71	4.85	46.17	0.55	16.53	1.85	61.54
Variance 0			-0.00	0.02	0.21			0.16	-4.79
Variance 1			-0.07	-0.01	0.14			0.08	-3.02
Variance 2			0.02	-0.00	0.03			0.07	-2.56

Notes

Sample time 1845. Sunny 60

Grab Samples

Product Name: Low-Flow System

Date: 2016-03-22 11:21:33

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 51.4 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 56.4 ft
Screen Length 10 ft
Depth to Water 17.94 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3399517 L
Calculated Sample Rate 240 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 24 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 0
Last 5	11:01:46	2640.02	20.48	5.41	41.26	0.55	17.95	2.94	64.82
Last 5	11:05:46	2880.03	20.49	5.41	41.36	0.59	17.95	2.87	64.40
Last 5	11:09:46	3120.02	20.53	5.33	38.33	0.61	17.95	2.92	62.46
Last 5	11:13:46	3360.02	20.59	5.36	38.48	0.48	17.95	2.90	62.29
Last 5	11:17:46	3600.04	20.69	5.34	38.10	0.50	17.95	2.90	61.20
Variance 0			0.03	-0.08	-3.03			0.05	-1.93
Variance 1			0.06	0.03	0.15			-0.02	-0.18
Variance 2			0.10	-0.02	-0.38			-0.00	-1.08

Notes

Sample time 1121. Sunny 55.

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-17 09:15:27

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 19.30 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	09:00:17	300.02	22.63	5.33	138.02	3.92	19.33	4.76	54.99
Last 5	09:05:17	600.02	22.67	5.34	138.40	2.81	19.33	4.80	49.57
Last 5	09:10:17	900.02	22.82	5.33	142.18	2.39	19.33	4.81	46.85
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.04	0.00	0.38			0.04	-5.42
Variance 2			0.15	-0.01	3.77			0.01	-2.72

Notes

Sample@0914. Cloudy 75

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-16 14:01:46

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum Stacking Area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 70 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 17.65 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4024396 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	13:28:13	1200.01	22.31	4.82	39.81	0.65	17.65	6.23	151.14
Last 5	13:33:13	1500.01	22.36	4.83	38.32	0.55	17.65	6.21	150.81
Last 5	13:38:13	1800.01	22.18	4.74	40.75	0.43	17.65	6.12	152.07
Last 5	13:43:13	2100.02	22.22	4.82	41.25	0.54	17.65	6.04	146.31
Last 5	13:48:16	2403.01	22.13	4.82	40.76	0.49	17.65	6.03	146.71
Variance 0			-0.19	-0.09	2.43			-0.08	1.26
Variance 1			0.04	0.07	0.50			-0.08	-5.76
Variance 2			-0.09	0.00	-0.49			-0.01	0.40

Notes

Sampled@1350 temperature 82 degrees precipitation none FB-01@1230

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-16 11:53:56

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 49.25 ft

Pump placement from TOC 57 ft

Well Information:

Well ID MW-3
Well diameter 2 in
Well Total Depth 54.25 ft
Screen Length 10 ft
Depth to Water 21.46 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3098236 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 20 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:29:01	1800.03	22.93	4.56	63.98	0.35	21.46	5.89	55.93
Last 5	11:34:01	2100.03	23.22	4.56	64.39	0.22	21.46	5.97	56.79
Last 5	11:39:01	2400.04	23.74	4.55	64.88	0.28	21.46	5.83	57.76
Last 5	11:44:01	2700.03	23.79	4.56	64.89	0.35	21.46	5.80	58.13
Last 5	11:49:01	3000.02	23.79	4.54	65.17	0.41	21.46	5.75	58.03
Variance 0			0.52	-0.01	0.49			-0.14	0.96
Variance 1			0.04	0.01	0.00			-0.03	0.38
Variance 2			-0.00	-0.02	0.28			-0.05	-0.10

Notes

Sample@1151, DUP -01@1051. Partly cloudy 84

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-16 15:04:49

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 46.8 ft

Well Information:

Well ID MW-4
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 10 ft
Depth to Water 21.16 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:48:45	300.02	23.61	4.95	60.99	0.33	21.17	0.51	44.05
Last 5	14:53:45	600.02	23.38	4.97	60.44	0.47	21.17	0.56	40.13
Last 5	14:58:45	900.02	23.40	4.95	59.18	0.29	21.17	0.60	39.30
Last 5	15:03:45	1200.02	23.34	4.95	58.48	0.33	21.17	0.69	38.97
Last 5									
Variance 0			-0.23	0.02	-0.55			0.06	-3.92
Variance 1			0.03	-0.02	-1.26			0.03	-0.83
Variance 2			-0.07	-0.00	-0.69			0.09	-0.34

Notes

Sample@1504, Cloudy 81

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-17 08:21:48

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 65 ft

Pump placement from TOC 53.8 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 5 ft
Depth to Water 20.54 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3801225 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	07:58:06	300.07	21.55	4.91	49.25	0.47	20.55	2.91	62.43
Last 5	08:03:06	600.02	21.37	4.89	49.90	0.41	20.55	2.89	58.50
Last 5	08:08:06	900.02	21.46	4.86	50.42	0.32	20.55	2.90	55.27
Last 5	08:13:06	1200.03	21.49	4.82	50.29	0.24	20.55	3.09	54.01
Last 5	08:18:06	1500.03	21.50	4.81	51.97	0.38	20.55	3.01	52.25
Variance 0			0.09	-0.03	0.52			0.01	-3.23
Variance 1			0.03	-0.04	-0.13			0.19	-1.26
Variance 2			0.01	-0.01	1.69			-0.08	-1.76

Notes

Sample@0820. Cloudy 73

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-16 13:55:31

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 65 ft

Pump placement from TOC 53.5 ft

Well Information:

Well ID MW-6
Well diameter 2 in
Well Total Depth 56 ft
Screen Length 5 ft
Depth to Water 20.69 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3801225 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 in
Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:33:00	1200.02	23.14	4.74	52.97	0.36	20.73	1.06	46.52
Last 5	13:38:00	1500.02	22.80	4.75	53.19	0.71	20.73	1.08	45.16
Last 5	13:43:00	1800.02	22.66	4.73	55.86	0.31	20.73	1.05	43.93
Last 5	13:48:00	2100.03	22.81	4.73	56.26	0.39	20.73	1.00	43.03
Last 5	13:53:00	2400.02	22.72	4.73	56.97	0.46	20.73	0.99	42.88
Variance 0			-0.14	-0.01	2.67			-0.03	-1.23
Variance 1			0.14	-0.01	0.40			-0.05	-0.90
Variance 2			-0.08	0.00	0.71			-0.01	-0.15

Notes

Sample@1354, EQ Blank-01@1300. Partly cloudy 82

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-16 10:20:40

Project Information:

Operator Name Brett
Company Name Surles
Project Name Gypsum stacking
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 49.8 ft

Well Information:

Well ID MW-7
Well diameter 2 in
Well Total Depth 54.8 ft
Screen Length 10 ft
Depth to Water 18.08 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3444151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:03:55	300.05	20.51	4.84	94.55	0.34	18.14	7.39	63.33
Last 5	10:08:55	600.02	20.51	4.66	97.90	0.62	18.14	7.35	62.56
Last 5	10:13:55	900.02	20.57	4.59	98.79	0.38	18.14	7.33	61.90
Last 5	10:18:55	1200.02	20.57	4.55	99.67	0.43	18.14	7.29	61.54
Last 5									
Variance 0			0.00	-0.18	3.35			-0.04	-0.77
Variance 1			0.06	-0.07	0.89			-0.03	-0.66
Variance 2			0.00	-0.05	0.88			-0.04	-0.36

Notes

Sample@1019. Partly cloudy 79

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-17 08:28:49

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum Stacking Area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 75 ft

Pump placement from TOC 50.80 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 55.80 ft
Screen Length 10 ft
Depth to Water 17.91 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4247567 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.5 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	08:15:39	300.05	21.94	4.50	61.73	0.37	17.96	6.54	128.76
Last 5	08:20:39	600.01	22.04	4.50	61.59	0.31	17.96	6.50	132.69
Last 5	08:25:39	900.01	21.95	4.50	61.69	0.24	17.96	6.43	133.37
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.10	0.01	-0.15			-0.04	3.93
Variance 2			-0.09	-0.00	0.11			-0.07	0.68

Notes

Sampled@0830 temperature 75 degrees precipitation: slight drizzle

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-16 15:43:23

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum Stacking Area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 75 ft

Pump placement from TOC 51.2 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 56.2 ft
Screen Length 10 ft
Depth to Water 17.44 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4247567 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.4 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	15:17:49	1500.01	20.84	5.02	42.75	0.60	17.48	1.97	68.50
Last 5	15:22:49	1800.01	20.88	5.02	45.81	0.56	17.48	2.06	59.41
Last 5	15:27:49	2100.01	20.84	5.02	45.23	0.54	17.48	2.15	53.26
Last 5	15:32:49	2400.01	20.86	5.01	45.42	0.53	17.48	2.17	49.09
Last 5	15:37:49	2700.01	20.84	5.01	46.24	0.48	17.48	2.24	45.12
Variance 0			-0.04	0.00	-0.59			0.09	-6.15
Variance 1			0.02	-0.01	0.20			0.02	-4.17
Variance 2			-0.02	-0.00	0.82			0.07	-3.97

Notes

Sampled@1545 temperature 85 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-05-16 11:15:32

Project Information:

Operator Name Shane Bragg
Company Name RDH ENV
Project Name Gypsum Stacking Area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 65 ft

Pump placement from TOC 51.4 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 56.4 ft
Screen Length 10 ft
Depth to Water 18.74 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3801225 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.3 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	10:50:00	600.01	21.37	5.81	74.19	1.32	18.77	2.56	118.26
Last 5	10:55:00	900.01	21.41	5.61	58.29	1.07	18.77	2.46	117.72
Last 5	11:00:00	1200.01	21.49	5.44	50.26	0.79	18.77	2.43	121.15
Last 5	11:05:00	1500.01	21.55	5.49	49.84	0.63	18.77	2.43	115.43
Last 5	11:10:00	1800.01	21.57	5.48	51.55	0.60	18.77	2.41	115.35
Variance 0			0.08	-0.16	-8.03			-0.03	3.43
Variance 1			0.06	0.05	-0.42			-0.00	-5.72
Variance 2			0.02	-0.01	1.71			-0.01	-0.09

Notes

Sampled@1120 temperature 79 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-12 14:26:42

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Environmental
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 50 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 20.70 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:03:38	300.01	22.39	5.11	108.82	1.86	20.70	5.95	112.33
Last 5	14:08:42	604.01	21.73	4.99	106.90	2.06	20.70	6.42	112.73
Last 5	14:13:42	904.01	21.65	4.85	105.20	0.63	20.70	6.52	113.47
Last 5	14:18:42	1204.01	21.68	4.78	105.17	0.45	20.70	6.48	114.22
Last 5	14:23:42	1504.01	21.69	4.78	104.78	1.23	20.70	6.42	115.18
Variance 0			-0.08	-0.14	-1.70			0.10	0.73
Variance 1			0.03	-0.07	-0.04			-0.04	0.75
Variance 2			0.00	-0.01	-0.38			-0.06	0.97

Notes

Sample time 1426. Cloudy 83.

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-11 15:09:57

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Environmental
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 18.94 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:50:53	300.01	21.78	4.84	37.61	0.86	18.96	6.41	54.77
Last 5	14:55:53	600.01	21.59	4.88	37.43	0.50	18.96	6.47	55.55
Last 5	15:00:53	900.01	21.55	4.88	37.37	0.46	18.96	6.35	58.50
Last 5	15:05:53	1200.01	21.54	4.88	37.18	0.61	18.96	6.51	61.79
Last 5									
Variance 0			-0.18	0.03	-0.18			0.07	0.78
Variance 1			-0.05	0.00	-0.06			-0.12	2.95
Variance 2			-0.01	-0.01	-0.20			0.16	3.30

Notes

Sample time 1508. EB-01 time 1405. FB-01 time 1415. Cloudy 80.

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-11 11:38:19

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum Stacking Area
Site Name Plant Daniel Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 49.3 ft

Well Information:

Well ID MW-3
Well diameter 2 in
Well Total Depth 54.3 ft
Screen Length 10 ft
Depth to Water 22.45 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 in
Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:16:48	1200.02	28.04	4.62	59.86	0.41	22.49	5.28	76.60
Last 5	11:21:48	1500.02	27.42	4.57	60.31	0.31	22.49	5.25	76.94
Last 5	11:26:48	1800.02	27.98	4.56	60.63	0.33	22.49	5.17	78.44
Last 5	11:31:48	2100.02	27.97	4.59	61.45	0.30	22.49	5.06	77.01
Last 5	11:36:48	2400.02	28.15	4.59	62.29	0.36	22.49	5.08	77.29
Variance 0			0.56	-0.01	0.33			-0.08	1.51
Variance 1			-0.01	0.03	0.82			-0.11	-1.43
Variance 2			0.18	0.00	0.84			0.02	0.28

Notes

Sample@1138, SUNNY 88

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-12 17:00:28

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Environmental
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 54 ft

Pump placement from TOC 46.8 ft

Well Information:

Well ID MW-4
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 10 ft
Depth to Water 22.45 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3310249 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	16:38:10	1500.01	21.72	4.81	45.81	0.33	22.47	0.88	89.77
Last 5	16:43:10	1800.01	21.76	4.80	45.66	0.43	22.47	1.10	89.39
Last 5	16:48:10	2100.01	21.77	4.80	44.64	0.26	22.47	1.26	89.47
Last 5	16:53:10	2400.01	21.82	4.81	44.73	0.31	22.47	1.34	89.32
Last 5	16:58:10	2700.01	21.82	4.82	44.51	0.37	22.47	1.37	89.59
Variance 0			0.01	-0.00	-1.02			0.15	0.08
Variance 1			0.05	0.01	0.09			0.09	-0.15
Variance 2			0.00	0.01	-0.22			0.02	0.27

Notes

Sample time 1702. P/C 84.

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-12 15:38:40

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Environmental
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 51.3 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 10 ft
Depth to Water 21.83 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	15:15:33	600.01	21.42	4.67	53.51	0.56	21.83	2.63	98.57
Last 5	15:20:33	900.01	21.45	4.67	54.53	0.87	21.83	2.72	99.68
Last 5	15:25:33	1200.01	21.37	4.70	55.01	0.44	21.83	2.50	99.67
Last 5	15:30:33	1500.01	21.33	4.70	55.38	0.36	21.83	2.49	100.72
Last 5	15:35:33	1800.01	21.28	4.71	55.64	0.49	21.83	2.53	101.96
Variance 0			-0.08	0.03	0.48			-0.22	-0.01
Variance 1			-0.05	-0.00	0.37			-0.00	1.05
Variance 2			-0.04	0.01	0.27			0.03	1.25

Notes

Sample time 1538. P/C 85.

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-11 13:34:27

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum Stacking Area
Site Name Plant Daniel Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 63 ft

Pump placement from TOC 53.5 ft

Well Information:

Well ID MW-6
Well diameter 2 in
Well Total Depth 56 ft
Screen Length 5 ft
Depth to Water 21.79 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3711957 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 34 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:13:14	3900.02	24.41	4.85	55.71	0.88	21.81	0.78	62.15
Last 5	13:18:14	4200.02	24.51	4.78	55.73	0.63	21.81	0.78	62.88
Last 5	13:23:14	4500.02	24.93	4.73	56.76	0.54	21.81	0.81	62.21
Last 5	13:28:14	4800.02	24.76	4.75	56.23	0.46	21.81	0.82	60.96
Last 5	13:33:14	5100.02	24.78	4.71	55.65	0.44	21.81	0.83	62.04
Variance 0			0.42	-0.05	1.03			0.02	-0.67
Variance 1			-0.17	0.02	-0.53			0.02	-1.25
Variance 2			0.02	-0.05	-0.58			0.00	1.08

Notes

Sample@1334 cloudy 87

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-11 10:16:13

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum Stacking Area
Site Name Plant Daniel Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 49.8 ft

Well Information:

Well ID MW-7
Well diameter 2 in
Well Total Depth 54.8 ft
Screen Length 10 ft
Depth to Water 19.11 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:04:31	300.06	24.19	5.35	94.05	0.71	19.12	7.14	103.38
Last 5	10:09:31	600.02	24.37	5.35	94.55	0.47	19.12	7.10	97.39
Last 5	10:14:31	900.03	24.35	5.16	93.98	0.39	19.12	7.14	94.09
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.18	-0.00	0.50			-0.04	-5.99
Variance 2			-0.02	-0.19	-0.57			0.04	-3.30

Notes

Sample@1015, DUP-01@0915 partly cloudy 82

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-11 11:17:01

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Environmental
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-8
Well diameter 2 in
Well Total Depth 55.8 ft
Screen Length 10 ft
Depth to Water 19.07 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.09 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:03:05	300.10	22.68	4.49	59.57	0.46	19.10	6.79	71.02
Last 5	11:08:05	600.01	22.62	4.51	59.69	0.35	19.09	6.79	74.43
Last 5	11:13:05	900.01	22.59	4.51	59.40	0.47	19.09	6.75	77.72
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.06	0.02	0.12			0.00	3.41
Variance 2			-0.03	-0.00	-0.28			-0.04	3.29

Notes

Sample time 1116. Sunny 86.

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-11 12:41:04

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Environmental
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 56.2 ft
Screen Length 10 ft
Depth to Water 18.65 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:18:18	600.01	22.01	4.88	43.37	0.99	18.68	1.19	81.54
Last 5	12:23:18	900.01	21.99	4.87	43.83	0.43	18.68	1.69	80.73
Last 5	12:28:18	1200.01	21.91	4.87	44.06	0.38	18.68	1.91	80.46
Last 5	12:33:18	1500.01	21.84	4.87	44.20	0.31	18.68	2.10	80.51
Last 5	12:38:18	1800.01	21.82	4.87	44.27	0.34	18.68	2.11	80.79
Variance 0			-0.09	0.00	0.23			0.22	-0.27
Variance 1			-0.06	-0.01	0.14			0.19	0.05
Variance 2			-0.03	-0.00	0.07			0.01	0.28

Notes

Sample time 1243. P/C 90.

Grab Samples

Product Name: Low-Flow System

Date: 2016-07-12 13:16:48

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Environmental
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 56.4 ft
Screen Length 10 ft
Depth to Water 20.13 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:57:00	300.02	22.35	5.13	36.01	1.10	20.14	2.30	71.47
Last 5	13:02:00	600.01	21.81	5.01	36.83	0.51	20.14	2.25	74.86
Last 5	13:07:00	900.01	21.73	4.96	36.62	0.41	20.14	2.22	77.25
Last 5	13:12:00	1200.01	21.78	4.95	36.61	0.47	20.14	2.20	78.03
Last 5									
Variance 0			-0.55	-0.12	0.83			-0.05	3.39
Variance 1			-0.08	-0.05	-0.22			-0.03	2.39
Variance 2			0.05	-0.00	-0.01			-0.02	0.78

Notes

Sample time 1318. Cloudy 81.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 10:38:05

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 20.20 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	10:13:48	300.02	21.63	5.38	116.17	1.06	20.22	6.37	97.35
Last 5	10:18:48	600.02	21.45	5.03	107.76	1.34	20.22	6.79	99.98
Last 5	10:23:48	900.01	21.47	4.91	107.71	1.75	20.22	6.84	100.19
Last 5	10:28:48	1200.02	21.45	4.83	106.75	1.72	20.22	6.78	101.03
Last 5	10:33:48	1500.01	21.43	4.83	107.03	2.54	20.22	6.79	100.97
Variance 0			0.01	-0.12	-0.05			0.06	0.20
Variance 1			-0.02	-0.08	-0.96			-0.06	0.85
Variance 2			-0.02	0.00	0.28			0.01	-0.06

Notes

Sample time 1039. Sunny 81.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 13:33:39

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 18.49 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	13:09:27	900.01	21.81	4.85	38.06	0.60	18.52	6.51	58.61
Last 5	13:14:27	1200.01	21.77	4.84	38.11	0.61	18.52	6.25	58.62
Last 5	13:19:27	1500.01	21.76	4.85	38.02	0.48	18.52	6.38	57.96
Last 5	13:24:27	1800.01	21.92	4.88	38.65	0.39	18.52	6.47	56.59
Last 5	13:29:27	2100.01	21.90	4.86	38.44	0.38	18.52	6.56	58.40
Variance 0			-0.00	0.00	-0.09			0.13	-0.66
Variance 1			0.16	0.04	0.63			0.09	-1.37
Variance 2			-0.02	-0.02	-0.21			0.09	1.82

Notes

Sample time 1335. Sunny 85.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-12 15:45:14

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 49.3 ft

Well Information:

Well ID MW-3
Well diameter 2 in
Well Total Depth 54.3 ft
Screen Length 10 ft
Depth to Water 22.20 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3444151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	15:21:56	900.01	22.64	4.41	56.27	0.48	22.20	6.02	81.44
Last 5	15:26:56	1200.01	22.97	4.43	56.75	0.45	22.20	5.79	81.48
Last 5	15:31:56	1500.01	22.39	4.46	57.71	0.32	22.20	5.80	81.40
Last 5	15:36:56	1800.01	22.30	4.46	58.36	0.30	22.20	5.74	82.53
Last 5	15:41:56	2100.02	22.26	4.46	58.60	0.41	22.20	5.67	83.69
Variance 0			-0.58	0.03	0.97			0.01	-0.08
Variance 1			-0.09	0.00	0.65			-0.06	1.13
Variance 2			-0.05	0.00	0.25			-0.07	1.17

Notes

Sample time 1544. Cloudy 82.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 08:37:33

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 49 ft

Pump placement from TOC 46.8 ft

Well Information:

Well ID MW-4
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 10 ft
Depth to Water 22.09 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3087077 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	08:13:47	300.11	21.39	4.85	51.93	9.39	22.09	0.79	75.11
Last 5	08:18:47	600.02	21.32	4.81	48.82	8.06	22.09	1.42	73.50
Last 5	08:23:47	900.02	21.35	4.83	47.23	5.01	22.09	1.79	71.55
Last 5	08:28:47	1200.01	21.34	4.83	47.03	2.94	22.09	1.98	70.30
Last 5	08:33:47	1500.02	21.19	4.82	47.21	2.74	22.09	1.89	70.75
Variance 0			0.03	0.02	-1.59			0.37	-1.95
Variance 1			-0.01	0.00	-0.20			0.19	-1.25
Variance 2			-0.15	-0.01	0.18			-0.09	0.44

Notes

Sample time 0837. Sunny 72.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 09:28:28

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51.3 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 10 ft
Depth to Water 21.41 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:09:28	300.06	21.57	4.65	50.94	1.73	21.43	3.12	83.13
Last 5	09:14:28	600.02	21.27	4.72	51.95	1.31	21.43	2.95	75.14
Last 5	09:19:28	900.01	21.23	4.74	53.31	0.80	21.43	2.99	73.00
Last 5	09:24:28	1200.01	21.16	4.76	54.11	0.84	21.43	2.94	71.86
Last 5									
Variance 0			-0.30	0.06	1.00			-0.17	-7.99
Variance 1			-0.04	0.02	1.36			0.04	-2.13
Variance 2			-0.08	0.02	0.80			-0.05	-1.14

Notes

Sample time 0928. Dup-01 0828. Sunny 75.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-12 16:40:20

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51.0 ft

Well Information:

Well ID MW-6
Well diameter 2 in
Well Total Depth 56.0 ft
Screen Length 10 ft
Depth to Water 21.52 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	16:22:32	300.06	21.70	4.55	47.13	1.05	21.50	1.04	99.97
Last 5	16:27:32	600.07	21.45	4.61	47.30	0.92	21.50	0.93	95.71
Last 5	16:32:32	900.03	21.48	4.64	47.69	0.43	21.50	0.91	94.37
Last 5	16:37:32	1200.01	21.40	4.63	48.10	0.38	21.50	0.92	95.17
Last 5									
Variance 0			-0.25	0.06	0.17			-0.12	-4.26
Variance 1			0.03	0.03	0.39			-0.02	-1.34
Variance 2			-0.09	-0.01	0.41			0.01	0.80

Notes

Sample time 1640. P/C 85.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-12 13:22:43

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 49.8 ft

Well Information:

Well ID MW-7
Well diameter 2 in
Well Total Depth 54.8 ft
Screen Length 10 ft
Depth to Water 18.82 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3444151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	13:08:57	600.05	21.72	4.43	85.72	0.63	18.83	7.05	75.35
Last 5	13:13:57	900.01	21.67	4.44	85.46	0.45	18.83	7.02	75.54
Last 5	13:18:57	1200.02	21.63	4.44	85.25	0.43	18.83	7.03	76.03
Last 5									
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.06	0.01	-0.26			-0.02	0.19
Variance 2			-0.03	-0.00	-0.21			0.00	0.49

Notes

Sample time 1323. Cloudy 87.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 16:35:59

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-8
Well diameter 2 in
Well Total Depth 55.8 ft
Screen Length 10 ft
Depth to Water 18.63 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3444151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	16:16:58	300.02	22.19	4.77	58.09	0.75	18.63	6.71	75.83
Last 5	16:21:58	600.02	21.76	4.73	58.38	0.55	18.63	6.66	75.99
Last 5	16:26:58	900.01	21.63	4.71	58.72	0.41	18.63	6.65	76.80
Last 5	16:31:58	1200.01	21.57	4.71	58.74	0.38	18.63	6.66	77.38
Last 5									
Variance 0			-0.43	-0.04	0.30			-0.05	0.17
Variance 1			-0.13	-0.02	0.34			-0.01	0.81
Variance 2			-0.07	-0.00	0.02			0.01	0.58

Notes

Sample time 1636. Rain off and on. Temp 76.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 15:09:18

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51.2 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 56.2 ft
Screen Length 10 ft
Depth to Water 18.19 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 24 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	14:46:20	2400.01	22.44	4.94	45.30	0.47	18.20	1.70	60.48
Last 5	14:51:20	2700.01	21.94	4.92	44.77	0.33	18.20	1.73	61.86
Last 5	14:56:20	3000.01	21.81	4.92	45.25	0.29	18.20	1.90	61.42
Last 5	15:01:20	3300.01	21.81	4.92	45.33	0.23	18.20	1.99	61.24
Last 5	15:06:20	3600.01	21.99	4.92	45.41	0.35	18.20	1.99	60.96
Variance 0			-0.13	-0.00	0.48			0.17	-0.44
Variance 1			-0.00	-0.00	0.08			0.10	-0.19
Variance 2			0.18	0.01	0.08			-0.01	-0.27

Notes

Sample time 1509. P/C 88.

Grab Samples

Product Name: Low-Flow System

Date: 2016-09-13 11:49:17

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51.4 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 56.4 ft
Screen Length 10 ft
Depth to Water 19.66 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:30:34	300.06	21.72	4.83	33.27	0.47	19.67	2.30	83.27
Last 5	11:35:33	600.01	21.45	4.89	33.14	0.47	19.68	2.33	74.12
Last 5	11:40:33	900.02	21.37	4.95	33.36	0.37	19.68	2.35	72.38
Last 5	11:45:33	1200.02	21.33	4.95	33.52	0.73	19.68	2.37	72.28
Last 5									
Variance 0			-0.27	0.06	-0.13			0.03	-9.15
Variance 1			-0.09	0.05	0.23			0.01	-1.74
Variance 2			-0.04	0.01	0.16			0.02	-0.10

Notes

Sample time 1148. EB-01 @ 1101. Fab-01 @ 1109. Starting raining halfway through purging. Rain 80.

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-17 07:33:12

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 21.74 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7304883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	07:12:04	600.02	17.52	4.67	106.13	3.45	21.78	7.28	166.54
Last 5	07:17:04	900.02	17.66	4.66	106.57	1.76	21.78	7.34	162.82
Last 5	07:22:04	1200.02	17.81	4.66	106.76	1.20	21.78	7.36	159.90
Last 5	07:27:04	1500.02	17.94	4.66	106.69	0.95	21.78	7.36	157.85
Last 5	07:32:04	1800.03	17.99	4.66	106.80	0.79	21.78	7.36	155.86
Variance 0			0.15	0.01	0.18			0.03	-2.92
Variance 1			0.13	-0.00	-0.07			-0.00	-2.05
Variance 2			0.05	-0.01	0.12			0.01	-1.99

Notes

Sample@0732, Sunny 51

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-17 09:54:05

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 19.97 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4654883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 16 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	09:32:43	1200.02	21.63	4.81	40.20	0.43	19.98	6.02	149.77
Last 5	09:37:43	1500.02	21.93	4.80	40.27	0.45	19.99	5.96	149.11
Last 5	09:42:43	1800.02	22.17	4.80	40.40	0.66	19.99	5.86	148.47
Last 5	09:47:43	2100.02	22.29	4.80	40.26	0.89	19.99	5.85	147.94
Last 5	09:52:43	2400.02	22.35	4.79	40.12	0.95	19.99	5.91	147.26
Variance 0			0.24	-0.00	0.13			-0.10	-0.64
Variance 1			0.12	-0.00	-0.14			-0.01	-0.54
Variance 2			0.06	-0.00	-0.14			0.06	-0.67

Notes

Sample@0953,FB-01@0945, Sunny 71

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-16 11:57:30

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 49.3 ft

Well Information:

Well ID MW-3
Well diameter 2 in
Well Total Depth 54.3 ft
Screen Length 10 ft
Depth to Water 23.37 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7528054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:35:17	300.07	25.36	4.40	60.07	6.93	23.39	6.33	138.60
Last 5	11:40:17	600.02	23.94	4.34	61.53	6.56	22.39	6.42	139.02
Last 5	11:45:17	900.02	24.31	4.35	62.05	5.58	22.39	6.42	139.63
Last 5	11:50:17	1200.02	24.23	4.35	62.10	4.26	22.39	6.37	140.04
Last 5	11:55:17	1500.02	24.20	4.34	62.36	3.50	22.39	6.39	140.30
Variance 0			0.37	0.00	0.52			0.00	0.61
Variance 1			-0.08	-0.00	0.05			-0.05	0.41
Variance 2			-0.03	-0.01	0.26			0.02	0.26

Notes

Sample@1156, DUP-01@1056, Sunny 75

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-16 14:24:45

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 52 ft

Pump placement from TOC 46.8 ft

Well Information:

Well ID MW-4
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 10 ft
Depth to Water 23.43 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.717098 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:13:51	300.07	22.35	4.71	54.33	1.12	23.43	2.07	129.98
Last 5	14:18:51	600.03	22.28	4.71	54.31	0.97	23.43	2.09	125.76
Last 5	14:23:51	900.03	22.26	4.71	54.15	0.88	23.43	2.11	123.02
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.07	-0.00	-0.02			0.02	-4.22
Variance 2			-0.02	0.00	-0.16			0.02	-2.74

Notes

Sample@1424 Sunny 78

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-16 15:16:30

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 51.3 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 10 ft
Depth to Water 22.84 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7394151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:55:09	300.03	22.58	4.66	62.16	9.25	22.85	2.85	137.89
Last 5	15:00:09	600.02	22.42	4.65	62.64	3.87	22.85	2.70	131.38
Last 5	15:05:09	900.02	22.14	4.65	62.95	3.16	22.85	2.69	127.22
Last 5	15:10:09	1200.02	22.22	4.65	63.33	2.02	22.85	2.70	123.75
Last 5	15:15:09	1500.02	22.13	4.65	64.12	1.79	22.85	2.72	121.00
Variance 0			-0.28	-0.00	0.31			-0.01	-4.17
Variance 1			0.08	0.00	0.38			0.01	-3.47
Variance 2			-0.08	0.00	0.79			0.02	-2.75

Notes

Sample@1516 Sunny77

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-16 13:02:36

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 51 ft

Well Information:

Well ID MW-6
Well diameter 2 in
Well Total Depth 56 ft
Screen Length 10 ft
Depth to Water 22.79 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7528054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:46:32	300.02	22.57	4.54	54.86	10.50	22.80	0.93	151.61
Last 5	12:51:32	600.02	22.39	4.56	55.27	5.09	22.80	0.87	148.18
Last 5	12:56:32	900.02	22.35	4.56	55.50	2.70	22.80	0.86	145.83
Last 5	13:01:32	1200.02	22.44	4.57	55.66	2.33	22.80	0.84	144.69
Last 5									
Variance 0			-0.18	0.01	0.41			-0.06	-3.43
Variance 1			-0.03	0.01	0.23			-0.01	-2.35
Variance 2			0.09	0.01	0.16			-0.02	-1.14

Notes

Sample@1301 Sunny 78

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-16 11:03:37

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 54 ft

Pump placement from TOC 49.9 ft

Well Information:

Well ID MW-7
Well diameter 2 in
Well Total Depth 54.8 ft
Screen Length 10 ft
Depth to Water 20.05 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7260249 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:47:12	300.06	20.79	4.72	93.62	18.40	20.05	7.02	102.97
Last 5	10:52:12	600.03	20.54	4.42	94.85	8.34	20.05	7.11	110.47
Last 5	10:57:12	900.02	20.48	4.37	95.36	4.96	20.05	7.15	116.76
Last 5	11:02:12	1200.02	20.48	4.36	95.16	2.65	20.05	7.16	120.09
Last 5									
Variance 0			-0.26	-0.30	1.23			0.09	7.49
Variance 1			-0.05	-0.05	0.51			0.04	6.29
Variance 2			0.00	-0.01	-0.20			0.01	3.33

Notes

Sample@1103, Sunny 75

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-17 13:19:52

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-8
Well diameter 2 in
Well Total Depth 55.8 ft
Screen Length 10 ft
Depth to Water 20 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4699517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 0 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:57:52	2400.02	24.22	4.49	62.68	0.99	20.03	7.03	101.79
Last 5	13:02:52	2700.02	23.70	4.49	62.72	1.17	20.03	7.06	106.67
Last 5	13:07:52	3000.02	23.97	4.49	62.36	1.21	20.03	7.01	110.56
Last 5	13:12:52	3300.02	23.88	4.49	62.21	0.67	20.03	6.98	113.85
Last 5	13:17:52	3600.02	23.85	4.49	62.38	0.71	20.03	6.98	116.49
Variance 0			0.27	0.00	-0.37			-0.04	3.88
Variance 1			-0.09	0.00	-0.14			-0.03	3.29
Variance 2			-0.03	0.00	0.17			0.00	2.64

Notes

Sample@1318, EB-01@1330,FB-01@0945 Sunny 79

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-17 11:43:19

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51.2 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 56.2 ft
Screen Length 10 ft
Depth to Water 19.65 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4788785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 30 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:21:50	3300.02	23.86	4.86	49.38	1.01	19.68	1.60	127.11
Last 5	11:26:50	3600.02	23.84	4.85	49.41	0.95	19.68	1.68	125.89
Last 5	11:31:50	3900.02	24.08	4.84	49.53	0.91	19.68	1.78	125.03
Last 5	11:36:50	4200.02	24.11	4.82	49.66	1.06	19.68	1.85	124.18
Last 5	11:41:50	4500.02	24.24	4.82	49.62	0.99	19.68	1.93	123.53
Variance 0			0.24	-0.01	0.12			0.10	-0.86
Variance 1			0.03	-0.01	0.13			0.08	-0.85
Variance 2			0.13	-0.00	-0.04			0.08	-0.65

Notes

Sample@1142, Sunny 77

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-17 08:39:33

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum BKG-5-5
Site Name Daniel gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 51.4 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 56.4 ft
Screen Length 10 ft
Depth to Water 21.17 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4744151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	08:18:24	300.07	19.09	4.87	34.63	1.40	21.17	2.28	141.41
Last 5	08:23:24	600.02	19.41	4.85	34.35	1.15	21.17	2.27	140.84
Last 5	08:28:24	900.02	19.57	4.84	34.28	0.85	21.17	2.29	139.77
Last 5	08:33:24	1200.03	19.71	4.85	34.51	0.64	21.17	2.35	138.30
Last 5	08:38:24	1500.02	19.72	4.86	34.59	0.88	21.17	2.37	136.46
Variance 0			0.16	-0.00	-0.07			0.02	-1.07
Variance 1			0.14	0.01	0.23			0.06	-1.48
Variance 2			0.01	0.01	0.08			0.02	-1.84

Notes

Sample@0839, Sunny 62

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-16 12:59:03

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gyp- BKG-6
Site Name Daniel Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 19.89 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7528054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:37:57	1500.02	23.07	4.89	110.93	1.25	19.91	7.14	66.79
Last 5	12:42:57	1800.02	23.34	4.87	110.39	0.97	19.91	7.12	68.06
Last 5	12:47:57	2100.02	22.99	4.88	109.79	0.93	19.91	7.05	67.89
Last 5	12:52:57	2400.02	22.96	4.86	110.16	0.85	19.91	7.11	68.35
Last 5	12:57:57	2700.02	22.91	4.85	110.42	0.76	19.91	7.13	68.66
Variance 0			-0.34	0.01	-0.59			-0.06	-0.17
Variance 1			-0.03	-0.02	0.36			0.05	0.46
Variance 2			-0.05	-0.01	0.27			0.02	0.31

Notes

Sample@1258, Partly Cloudy 75

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-16 16:28:39

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-6
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 53 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 18.26 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3265614 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	16:06:10	900.02	20.87	4.79	38.95	2.21	18.26	6.29	49.18
Last 5	16:11:10	1200.02	20.80	4.80	39.67	1.56	18.26	6.15	46.63
Last 5	16:16:10	1500.02	20.76	4.80	40.15	1.19	18.26	5.95	44.78
Last 5	16:21:10	1800.02	20.71	4.79	40.32	1.26	18.26	5.91	44.33
Last 5	16:26:10	2100.02	20.68	4.79	40.64	0.95	18.26	5.94	44.17
Variance 0			-0.04	0.00	0.48			-0.20	-1.85
Variance 1			-0.05	-0.00	0.16			-0.04	-0.45
Variance 2			-0.03	-0.00	0.33			0.03	-0.15

Notes

Sample time 1628. P/C 75.

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-16 08:11:15

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gyp- BKG-6
Site Name Daniel Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 49.3 ft

Well Information:

Well ID MW-3
Well diameter 2 in
Well Total Depth 54.3 ft
Screen Length 10 ft
Depth to Water 21.82 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7394151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.07 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	07:49:48	300.06	20.30	4.27	62.19	1.61	21.89	6.23	117.44
Last 5	07:54:48	600.02	20.33	4.29	62.56	1.13	21.89	5.92	108.51
Last 5	07:59:48	900.02	20.48	4.35	63.37	0.69	21.89	5.77	103.48
Last 5	08:04:48	1200.02	20.57	4.37	63.93	0.84	21.89	5.69	100.96
Last 5	08:09:48	1500.03	20.63	4.39	64.08	0.77	21.89	5.67	99.17
Variance 0			0.15	0.06	0.81			-0.15	-5.02
Variance 1			0.09	0.02	0.56			-0.08	-2.53
Variance 2			0.06	0.02	0.14			-0.01	-1.79

Notes

Sample@0810, DUP -01@0710, Sunny 66

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-16 10:38:20

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gyp- BKG-6
Site Name Daniel Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 46.8 ft

Well Information:

Well ID MW-4
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 10 ft
Depth to Water 21.71 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7528054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 24 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:17:30	2400.02	21.94	4.82	53.04	0.35	21.72	1.71	49.00
Last 5	10:22:30	2700.03	22.09	4.82	52.62	0.31	21.72	1.77	50.03
Last 5	10:27:30	3000.02	22.34	4.82	52.52	0.27	21.72	1.83	50.74
Last 5	10:32:30	3300.02	22.40	4.81	52.45	0.39	21.72	1.89	51.04
Last 5	10:37:30	3600.02	22.52	4.82	52.20	0.33	21.72	1.89	51.19
Variance 0			0.25	-0.00	-0.11			0.06	0.70
Variance 1			0.05	-0.00	-0.06			0.05	0.30
Variance 2			0.12	0.01	-0.25			0.00	0.16

Notes

Sample@1038, Sunny 74

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-16 11:39:51

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gyp- BKG-6
Site Name Daniel Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 51.3 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 10 ft
Depth to Water 21.09 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7528054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:18:21	600.02	22.80	4.75	58.94	1.74	21.11	2.90	57.64
Last 5	11:23:21	900.02	22.35	4.75	59.12	1.09	21.11	2.86	55.75
Last 5	11:28:21	1200.02	22.56	4.75	59.63	0.82	21.11	2.88	55.28
Last 5	11:33:21	1500.02	22.68	4.75	59.75	0.69	21.11	2.89	54.90
Last 5	11:38:21	1800.02	22.55	4.76	59.82	0.63	21.11	2.89	54.69
Variance 0			0.21	-0.00	0.51			0.02	-0.48
Variance 1			0.12	0.00	0.13			0.00	-0.38
Variance 2			-0.13	0.01	0.07			0.01	-0.21

Notes

Sample@1139, partly cloudy 73

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-16 09:07:46

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gyp- BKG-6
Site Name Daniel Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 51 ft

Well Information:

Well ID MW-6
Well diameter 2 in
Well Total Depth 56 ft
Screen Length 10 ft
Depth to Water 21.05 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7528054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	08:56:40	300.02	20.85	4.61	50.27	1.16	21.07	1.21	55.44
Last 5	09:01:40	600.02	20.93	4.61	50.77	1.02	21.07	1.17	52.14
Last 5	09:06:40	900.02	20.92	4.61	51.23	0.95	21.07	1.10	50.65
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.07	0.00	0.50			-0.04	-3.30
Variance 2			-0.00	-0.00	0.46			-0.07	-1.50

Notes

Sample@0907 Sunny 72

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-16 13:46:04

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gyp- BKG-6
Site Name Daniel Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 49.8 ft

Well Information:

Well ID MW-7
Well diameter 2 in
Well Total Depth 54.8 ft
Screen Length 10 ft
Depth to Water 18.55 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7528054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:34:25	300.03	21.82	4.52	89.33	2.67	18.58	7.05	77.50
Last 5	13:39:25	600.02	21.95	4.48	89.92	1.54	18.58	7.11	75.71
Last 5	13:44:25	900.02	21.81	4.47	89.98	1.32	18.58	7.10	75.63
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.14	-0.05	0.59			0.06	-1.78
Variance 2			-0.15	-0.01	0.06			-0.01	-0.08

Notes

Sample@1345, FB-01@1335, EB-01@1400 partly cloudy 75

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-17 10:27:04

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-6
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-8
Well diameter 2 in
Well Total Depth 55.8 ft
Screen Length 10 ft
Depth to Water 18.44 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	10:09:10	300.06	22.18	4.69	56.63	5.24	18.45	6.30	70.26
Last 5	10:14:10	600.02	21.76	4.74	56.96	2.75	18.45	6.49	62.70
Last 5	10:19:10	900.02	21.60	4.74	56.80	1.37	18.45	6.44	58.36
Last 5	10:24:10	1200.02	21.68	4.77	56.74	1.28	18.45	6.43	55.71
Last 5									
Variance 0			-0.42	0.05	0.33			0.19	-7.55
Variance 1			-0.15	-0.00	-0.16			-0.05	-4.34
Variance 2			0.07	0.03	-0.07			-0.01	-2.65

Notes

Sample time 1027. Cloudy 73.

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-17 09:30:07

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-6
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 51.2 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 56.2 ft
Screen Length 10 ft
Depth to Water 17.97 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3399517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	09:06:15	600.02	20.88	4.89	44.31	1.17	17.99	1.17	51.28
Last 5	09:11:15	900.02	20.93	4.90	44.35	0.73	17.99	1.26	48.05
Last 5	09:16:15	1200.02	20.93	4.89	44.61	0.69	17.99	1.46	47.05
Last 5	09:21:15	1500.02	20.97	4.89	44.62	0.64	17.99	1.54	45.03
Last 5	09:26:15	1800.02	20.96	4.89	44.74	0.65	17.99	1.65	43.86
Variance 0			-0.00	-0.02	0.26			0.20	-1.00
Variance 1			0.04	0.01	0.01			0.09	-2.02
Variance 2			-0.01	-0.00	0.12			0.11	-1.16

Notes

Sample time 0927. Cloudy 70.

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-17 11:32:40

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-6
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 417744
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 51.4 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 56.4 ft
Screen Length 10 ft
Depth to Water 19.36 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3399517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:10:50	600.02	21.82	5.35	40.77	1.82	19.37	3.38	60.64
Last 5	11:15:50	900.01	21.64	5.31	37.65	0.90	19.37	3.14	52.42
Last 5	11:20:50	1200.02	21.77	5.24	35.43	0.89	19.37	2.85	48.26
Last 5	11:25:50	1500.02	21.60	5.21	34.75	0.80	19.37	2.79	45.77
Last 5	11:30:50	1800.02	21.72	5.18	34.05	0.88	19.37	2.73	44.25
Variance 0			0.13	-0.07	-2.22			-0.29	-4.16
Variance 1			-0.17	-0.03	-0.68			-0.06	-2.49
Variance 2			0.12	-0.03	-0.70			-0.06	-1.52

Notes

Sample time 1132. Cloudy 73.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 16:21:27

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-7
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 20.32 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7304883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.03 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	15:55:34	300.06	21.73	5.14	105.16	1.47	20.45	6.71	61.61
Last 5	16:00:34	600.01	21.23	5.03	104.22	1.68	20.45	6.90	61.38
Last 5	16:05:34	900.03	21.10	4.96	104.10	2.32	20.45	6.93	61.66
Last 5	16:10:34	1200.03	20.99	4.91	104.21	2.57	20.45	6.91	61.80
Last 5	16:15:34	1500.03	20.91	4.88	104.24	2.11	20.45	6.93	62.14
Variance 0			-0.13	-0.08	-0.12			0.03	0.28
Variance 1			-0.11	-0.05	0.11			-0.02	0.14
Variance 2			-0.07	-0.03	0.03			0.02	0.34

Notes

Sample time 1618. FB-01 sample time 1510. EB-01 sample time 1515. Sunny 77.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 10:58:53

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-7
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 18.62 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.09 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	10:36:25	600.01	21.04	4.88	40.09	0.71	18.70	5.58	51.85
Last 5	10:41:25	900.01	20.96	4.89	42.28	0.73	18.71	5.61	55.35
Last 5	10:46:25	1200.01	20.97	4.87	42.50	0.76	18.71	5.67	58.76
Last 5	10:51:25	1500.02	20.97	4.87	42.74	0.68	18.71	5.87	61.75
Last 5	10:56:25	1800.02	21.06	4.87	43.07	0.81	18.71	5.71	64.23
Variance 0			0.00	-0.01	0.22			0.07	3.41
Variance 1			0.00	-0.00	0.24			0.20	3.00
Variance 2			0.09	0.00	0.32			-0.16	2.48

Notes

Sample time 1059. Sunny 73.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 10:18:26

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Daniel Gypsum
Site Name Plant Daniel Gypsum BKG-7
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 49.3 ft

Well Information:

Well ID MW-3
Well diameter 2 in
Well Total Depth 54.3 ft
Screen Length 10 ft
Depth to Water 22.21 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7304883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.05 in
Total Volume Pumped 20 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	09:56:57	1800.02	22.67	4.26	62.60	0.38	22.26	6.17	157.76
Last 5	10:01:57	2100.03	22.89	4.25	62.92	0.44	22.26	6.12	157.41
Last 5	10:06:57	2400.02	23.19	4.26	62.73	0.34	22.26	6.03	157.10
Last 5	10:11:57	2700.02	23.33	4.26	62.93	0.25	22.26	6.03	157.39
Last 5	10:16:57	3000.02	23.24	4.26	62.76	0.22	22.26	6.04	156.03
Variance 0			0.30	0.01	-0.19			-0.09	-0.32
Variance 1			0.15	-0.01	0.20			0.01	0.29
Variance 2			-0.09	0.01	-0.17			0.00	-1.36

Notes

Sample@1017, Sunny 74

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 13:04:21

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Daniel Gypsum
Site Name Plant Daniel Gypsum BKG-7
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 53 ft

Pump placement from TOC 46.8 ft

Well Information:

Well ID MW-4
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 10 ft
Depth to Water 22.15 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7215614 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 24 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:43:26	2400.02	23.42	4.71	54.97	0.47	22.18	1.86	100.34
Last 5	12:48:26	2700.02	23.51	4.69	55.57	0.44	22.18	1.98	99.73
Last 5	12:53:26	3000.02	23.98	4.70	54.94	0.40	22.18	1.98	101.11
Last 5	12:58:26	3300.02	23.83	4.70	54.54	0.38	22.18	2.02	101.24
Last 5	13:03:26	3600.02	23.92	4.69	54.94	0.33	22.18	2.12	100.78
Variance 0			0.47	0.01	-0.63			-0.00	1.38
Variance 1			-0.15	0.01	-0.41			0.04	0.14
Variance 2			0.08	-0.01	0.41			0.10	-0.46

Notes

Sample@1304, Sunny 78

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 13:49:40

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Daniel Gypsum
Site Name Plant Daniel Gypsum BKG-7
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51.3 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 10 ft
Depth to Water 21.49 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7438785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:33:20	300.02	25.36	4.60	60.52	1.91	21.51	2.96	121.03
Last 5	13:38:20	600.02	25.12	4.59	59.75	1.37	21.51	2.60	115.96
Last 5	13:43:20	900.02	25.10	4.60	60.13	1.09	21.51	2.56	113.00
Last 5	13:48:20	1200.02	25.14	4.61	60.92	1.01	21.51	2.59	110.70
Last 5									
Variance 0			-0.24	-0.01	-0.77			-0.36	-5.07
Variance 1			-0.02	0.01	0.38			-0.04	-2.96
Variance 2			0.04	0.01	0.79			0.03	-2.29

Notes

Sample@1349, Sunny 76

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 11:16:35

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Daniel Gypsum
Site Name Plant Daniel Gypsum BKG-7
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51 ft

Well Information:

Well ID MW-6
Well diameter 2 in
Well Total Depth 56 ft
Screen Length 10 ft
Depth to Water 21.55 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7438785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.05 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:55:32	300.02	22.99	4.49	51.95	1.81	21.60	1.60	167.74
Last 5	11:00:32	600.02	23.35	4.48	52.28	1.05	21.60	1.39	162.50
Last 5	11:05:32	900.02	23.56	4.49	52.83	0.95	21.60	1.21	158.08
Last 5	11:10:32	1200.02	23.73	4.49	53.28	0.86	21.60	1.10	155.80
Last 5	11:15:32	1500.02	23.60	4.49	53.06	0.77	21.60	1.02	153.58
Variance 0			0.21	0.02	0.55			-0.18	-4.42
Variance 1			0.17	-0.00	0.45			-0.11	-2.28
Variance 2			-0.13	0.00	-0.22			-0.08	-2.22

Notes

Sample@1116, Sunny 78

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 08:55:10

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Daniel Gypsum
Site Name Plant Daniel Gypsum BKG-7
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 49.8 ft

Well Information:

Well ID MW-7
Well diameter 2 in
Well Total Depth 54.8 ft
Screen Length 10 ft
Depth to Water 18.86 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7304883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	08:43:13	300.03	19.95	4.21	96.94	0.62	18.90	7.32	169.80
Last 5	08:48:13	600.02	20.00	4.22	96.83	0.57	18.90	7.29	165.78
Last 5	08:53:13	900.02	20.02	4.22	96.89	0.75	18.90	7.31	163.39
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.05	0.01	-0.11			-0.03	-4.03
Variance 2			0.02	0.00	0.06			0.01	-2.38

Notes

Sample@0854, DUP01@0754

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 13:07:21

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-7
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-8
Well diameter 2 in
Well Total Depth 55.8 ft
Screen Length 10 ft
Depth to Water 18.75 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.07 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:44:19	300.06	22.25	4.50	62.55	1.68	18.82	6.74	42.23
Last 5	12:49:19	600.01	21.59	4.52	62.58	1.32	18.82	6.73	45.79
Last 5	12:54:19	900.02	21.50	4.52	62.51	1.82	18.82	6.46	49.25
Last 5	12:59:19	1200.01	21.52	4.54	62.57	1.17	18.82	6.50	52.17
Last 5	13:04:19	1500.02	21.55	4.54	62.41	1.69	18.82	6.49	54.97
Variance 0			-0.09	0.00	-0.07			-0.27	3.46
Variance 1			0.01	0.01	0.06			0.04	2.92
Variance 2			0.03	0.01	-0.16			-0.00	2.80

Notes

Sample time 1308. Sunny 78.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 11:47:25

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-7
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51.2 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 56.2 ft
Screen Length 10 ft
Depth to Water 18.32 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.09 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	11:30:12	300.06	21.42	4.86	46.45	1.83	18.41	1.34	20.94
Last 5	11:35:12	600.02	21.10	4.90	46.10	2.48	18.41	1.38	16.56
Last 5	11:40:12	900.02	20.99	4.93	46.29	1.28	18.41	1.31	14.05
Last 5	11:45:12	1200.02	21.14	4.92	46.47	0.74	18.41	1.48	14.26
Last 5									
Variance 0			-0.32	0.04	-0.35			0.04	-4.38
Variance 1			-0.11	0.03	0.19			-0.07	-2.51
Variance 2			0.15	-0.01	0.18			0.17	0.21

Notes

Sample time 1148. Sunny 78.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-20 14:54:57

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-7
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51.4 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 56.4 ft
Screen Length 10 ft
Depth to Water 19.78 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.06 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	14:31:51	300.05	23.25	4.93	32.11	1.45	19.84	3.11	31.09
Last 5	14:36:51	600.02	22.37	4.96	31.67	1.20	19.84	3.16	31.54
Last 5	14:41:51	900.02	22.08	4.97	32.63	0.80	19.84	3.19	33.88
Last 5	14:46:51	1200.02	21.99	4.97	33.55	0.57	19.84	3.11	37.10
Last 5	14:51:51	1500.01	21.96	4.97	33.60	0.80	19.84	3.12	39.41
Variance 0			-0.28	0.01	0.96			0.04	2.34
Variance 1			-0.09	0.00	0.92			-0.08	3.22
Variance 2			-0.04	-0.00	0.05			0.01	2.31

Notes

Sample time 1455. Sunny 78.

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-23 10:13:14

Project Information:

Operator Name Brett
Company Name Surles
Project Name Gypsum BKG-8
Site Name Plant Daniel CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 20.16 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7349517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 22 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	09:50:48	2100.02	23.49	4.85	119.57	1.09	20.17	7.02	94.96
Last 5	09:55:48	2400.02	23.11	4.84	119.50	1.06	20.17	7.04	93.05
Last 5	10:00:48	2700.02	22.93	4.83	119.41	0.84	20.17	7.03	91.45
Last 5	10:05:48	3000.04	22.80	4.82	119.28	0.74	20.17	7.04	90.46
Last 5	10:10:48	3300.03	22.33	4.80	119.34	0.65	20.17	7.03	88.88
Variance 0			-0.18	-0.01	-0.09			-0.01	-1.60
Variance 1			-0.13	-0.01	-0.12			0.01	-0.99
Variance 2			-0.47	-0.02	0.06			-0.00	-1.58

Notes

Sample@1012, Rain 77

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-23 18:07:43

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-8
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 53 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 18.41 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3265614 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	17:50:21	300.07	22.26	4.78	40.45	1.09	18.42	5.59	60.87
Last 5	17:55:21	600.02	22.08	4.81	41.48	1.11	18.42	5.51	48.96
Last 5	18:00:21	900.02	22.13	4.82	42.67	0.95	18.42	5.44	42.85
Last 5	18:05:21	1200.03	21.95	4.84	43.12	0.85	18.42	5.64	40.06
Last 5									
Variance 0			-0.18	0.04	1.03			-0.08	-11.91
Variance 1			0.04	0.01	1.19			-0.07	-6.11
Variance 2			-0.17	0.02	0.45			0.20	-2.79

Notes

Sample time 1809. Sunny 84. EB-01 sample time 1710. FB-01 sample time 1720.

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-22 15:13:05

Project Information:

Operator Name Brett
Company Name Surles
Project Name Gypsum BKG-8
Site Name Plant Daniel CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 49.3 ft

Well Information:

Well ID MW-3
Well diameter 2 in
Well Total Depth 54.4 ft
Screen Length 10 ft
Depth to Water 22.28 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7394151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:48:26	600.02	22.99	4.44	62.96	0.40	22.30	6.67	134.51
Last 5	14:53:26	900.02	22.89	4.44	63.54	0.85	22.30	6.52	130.52
Last 5	14:58:26	1200.02	22.88	4.43	64.03	0.62	22.30	6.39	128.53
Last 5	15:03:26	1500.02	22.84	4.43	64.64	0.48	22.30	6.32	126.51
Last 5	15:08:26	1800.02	22.88	4.44	65.08	0.44	22.30	6.26	125.33
Variance 0			-0.01	-0.01	0.50			-0.13	-1.99
Variance 1			-0.04	0.00	0.61			-0.07	-2.01
Variance 2			0.04	0.01	0.44			-0.06	-1.18

Notes

Sample@1512, cloudy 79

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-23 07:21:12

Project Information:

Operator Name Brett
Company Name Surles
Project Name Gypsum BKG-8
Site Name Plant Daniel CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 54 ft

Pump placement from TOC 46.8 ft

Well Information:

Well ID MW-4
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 10 ft
Depth to Water 21.96 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7260249 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	06:59:51	300.10	22.19	4.79	64.15	0.87	22.96	1.51	122.90
Last 5	07:04:51	600.02	22.26	4.75	63.95	0.82	22.96	1.03	113.40
Last 5	07:09:51	900.02	22.30	4.73	63.79	0.56	22.96	0.81	107.48
Last 5	07:14:51	1200.02	22.32	4.74	62.89	0.46	22.96	0.82	102.81
Last 5	07:19:51	1500.02	22.26	4.74	61.90	0.39	22.96	0.90	99.66
Variance 0			0.05	-0.01	-0.16			-0.22	-5.92
Variance 1			0.01	0.00	-0.90			0.01	-4.67
Variance 2			-0.06	-0.00	-1.00			0.09	-3.15

Notes

Sample@0720, DUP-02@0620, cloudy 74

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-23 08:33:23

Project Information:

Operator Name Brett
Company Name Surles
Project Name Gypsum BKG-8
Site Name Plant Daniel CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 59 ft

Pump placement from TOC 51.3 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 10 ft
Depth to Water 21.33 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7483419 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	08:12:19	600.02	22.28	4.72	60.73	0.59	21.96	2.89	102.11
Last 5	08:17:19	900.02	22.79	4.72	62.05	0.71	21.96	2.92	98.29
Last 5	08:22:19	1200.03	22.57	4.72	62.50	0.67	21.96	2.94	95.80
Last 5	08:27:19	1500.02	22.76	4.72	62.71	0.55	21.96	2.97	93.50
Last 5	08:32:19	1800.02	22.61	4.73	62.81	0.51	21.96	2.98	91.67
Variance 0			-0.22	-0.00	0.45			0.02	-2.48
Variance 1			0.19	0.00	0.21			0.03	-2.31
Variance 2			-0.15	0.01	0.10			0.01	-1.82

Notes

Sample@0832, cloudy 75

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-22 16:09:18

Project Information:

Operator Name Brett
Company Name Surles
Project Name Gypsum BKG-8
Site Name Plant Daniel CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51 ft

Well Information:

Well ID MW-6
Well diameter 2 in
Well Total Depth 56 ft
Screen Length 10 ft
Depth to Water 21.56 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7438785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	15:48:24	300.03	22.52	4.62	53.37	1.01	22.56	2.05	149.41
Last 5	15:53:24	600.02	22.35	4.61	53.37	0.97	22.56	1.70	135.51
Last 5	15:58:24	900.02	22.30	4.60	53.94	0.79	22.56	1.40	127.56
Last 5	16:03:24	1200.02	22.26	4.59	54.43	0.66	22.56	1.30	123.14
Last 5	16:08:24	1500.02	22.22	4.61	54.67	0.54	22.56	1.21	118.93
Variance 0			-0.05	-0.01	0.57			-0.29	-7.95
Variance 1			-0.04	-0.01	0.48			-0.10	-4.42
Variance 2			-0.04	0.02	0.25			-0.10	-4.21

Notes

Sample@1608, rainy 77

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-22 14:08:43

Project Information:

Operator Name Brett
Company Name Surles
Project Name Gypsum BKG-8
Site Name Plant Daniel CCR
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 49.8 ft

Well Information:

Well ID MW-7
Well diameter 2 in
Well Total Depth 54.8 ft
Screen Length 10 ft
Depth to Water 18.41 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7394151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:57:01	300.06	20.92	4.40	101.68	1.24	18.91	7.36	137.59
Last 5	14:02:00	600.02	20.83	4.38	101.64	0.68	18.91	7.39	134.53
Last 5	14:07:00	900.02	20.78	4.38	102.01	0.74	18.91	7.40	130.82
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.09	-0.02	-0.05			0.03	-3.06
Variance 2			-0.04	0.00	0.37			0.01	-3.71

Notes

Sample@1408, DUP-01@1308, Cloudy 80

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-23 16:12:59

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-8
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-8
Well diameter 2 in
Well Total Depth 55.8 ft
Screen Length 10 ft
Depth to Water 18.50 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 28 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	15:50:37	2999.94	21.64	6.77	60.30	0.80	18.51	6.55	-82.96
Last 5	15:55:37	3299.94	21.46	6.85	60.15	0.75	18.51	5.78	-85.40
Last 5	16:00:37	3599.94	21.64	7.02	60.19	0.84	18.51	5.72	-94.92
Last 5	16:05:37	3899.94	21.66	7.09	59.85	0.73	18.51	5.65	-98.07
Last 5	16:10:37	4199.94	21.68	7.14	59.51	0.73	18.51	5.75	-100.26
Variance 0			0.18	0.17	0.04			-0.06	-9.52
Variance 1			0.03	0.07	-0.35			-0.07	-3.15
Variance 2			0.02	0.06	-0.33			0.11	-2.19

Notes

Sample time 1613. P/C 83.

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-23 14:22:25

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-8
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 51.2 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 56.2 ft
Screen Length 10 ft
Depth to Water 18.08 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3399517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 14 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	14:00:40	899.93	21.90	4.84	49.22	0.90	18.09	2.15	37.98
Last 5	14:05:40	1199.92	21.62	4.85	48.64	0.90	18.09	2.26	35.90
Last 5	14:10:40	1499.92	21.51	4.84	48.24	0.78	18.09	2.44	34.66
Last 5	14:15:40	1799.92	21.51	4.85	48.06	0.78	18.09	2.51	33.00
Last 5	14:20:40	2099.93	21.71	4.86	47.83	0.80	18.09	2.60	31.94
Variance 0			-0.12	-0.01	-0.40			0.19	-1.24
Variance 1			0.00	0.02	-0.18			0.07	-1.66
Variance 2			0.20	0.01	-0.23			0.09	-1.06

Notes

Sample time 1423. P/C 82.

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-23 12:58:25

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area BG-8
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 51.4 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 56.4 ft
Screen Length 10 ft
Depth to Water 19.66 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3399517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:47:38	300.03	22.22	4.90	32.16	0.91	19.66	3.22	28.41
Last 5	12:52:38	600.03	22.26	4.91	31.58	0.93	19.66	3.23	26.88
Last 5	12:57:38	900.02	22.19	4.91	30.99	0.79	19.66	3.24	26.61
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.04	0.01	-0.58			0.01	-1.53
Variance 2			-0.07	-0.00	-0.60			0.01	-0.26

Notes

Sample time 1300. P/C 80.

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-18 10:41:17

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 17.61 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7349517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:20:07	1500.02	21.73	6.17	128.50	2.33	17.65	4.73	72.59
Last 5	10:25:07	1800.02	21.66	5.92	111.33	1.87	17.65	5.40	77.23
Last 5	10:30:07	2100.02	21.82	5.71	106.86	1.65	17.65	5.73	80.46
Last 5	10:35:07	2400.02	21.89	5.64	104.66	1.58	17.65	5.77	81.89
Last 5	10:40:07	2700.02	21.86	5.55	102.36	1.29	17.65	5.87	83.68
Variance 0			0.17	-0.21	-4.47			0.33	3.23
Variance 1			0.06	-0.07	-2.19			0.04	1.42
Variance 2			-0.03	-0.09	-2.30			0.10	1.79

Notes

Sample@1040, Sunny 70

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-18 12:26:10

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 15.82 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7304883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.06 in
Total Volume Pumped 10 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	12:05:14	300.03	25.55	4.99	43.52	1.79	15.88	5.49	114.80
Last 5	12:10:14	600.02	25.88	4.97	43.29	1.32	15.88	5.43	109.81
Last 5	12:15:14	900.02	26.12	4.95	43.06	1.01	15.88	5.40	107.36
Last 5	12:20:14	1200.02	26.05	4.94	42.96	0.87	15.88	5.42	106.33
Last 5	12:25:14	1500.02	26.07	4.92	42.78	0.73	15.88	5.33	106.76
Variance 0			0.24	-0.02	-0.23			-0.02	-2.45
Variance 1			-0.07	-0.01	-0.10			0.01	-1.04
Variance 2			0.02	-0.02	-0.18			-0.08	0.43

Notes

Sample@1225, Sunny 74

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-17 15:03:29

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 49.3 ft

Well Information:

Well ID MW-3
Well diameter 2 in
Well Total Depth 54.3 ft
Screen Length 10 ft
Depth to Water 20.21 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7394151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 50 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:42:16	6300.02	25.04	4.51	64.87	0.21	20.23	5.71	370.58
Last 5	14:47:16	6600.02	25.12	4.50	65.24	0.25	20.23	5.69	375.94
Last 5	14:52:16	6900.02	25.22	4.50	64.80	0.27	20.23	5.71	382.83
Last 5	14:57:16	7200.02	25.16	4.50	65.02	0.34	20.23	5.70	387.36
Last 5	15:02:16	7500.02	25.15	4.51	64.38	0.29	20.23	5.69	388.80
Variance 0			0.10	0.00	-0.43			0.02	6.89
Variance 1			-0.06	0.00	0.21			-0.00	4.52
Variance 2			-0.01	0.01	-0.64			-0.01	1.44

Notes

Sample @1503 ,Sunny 77

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-18 08:47:48

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 53 ft

Pump placement from TOC 46.8 ft

Well Information:

Well ID MW-4
Well diameter 2 in
Well Total Depth 51.8 ft
Screen Length 10 ft
Depth to Water 19.72 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7215614 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 20 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	08:26:44	1800.02	19.05	4.88	61.56	0.41	19.75	1.60	73.54
Last 5	08:31:44	2100.02	19.07	4.82	58.14	0.52	19.75	1.49	72.59
Last 5	08:36:44	2400.02	19.06	4.79	55.54	0.29	19.75	1.41	71.99
Last 5	08:41:44	2700.02	19.08	4.79	54.27	0.22	19.75	1.55	72.15
Last 5	08:46:44	3000.02	19.03	4.78	54.41	0.17	19.75	1.52	72.37
Variance 0			-0.02	-0.02	-2.60			-0.08	-0.60
Variance 1			0.03	-0.00	-1.27			0.13	0.16
Variance 2			-0.05	-0.01	0.15			-0.03	0.22

Notes

Sample@0847 ,Sunny 60

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-18 09:33:32

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51.3 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 10 ft
Depth to Water 19.05 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7438785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	09:17:32	300.02	19.94	5.19	46.37	0.29	19.07	0.66	85.64
Last 5	09:22:32	600.02	20.34	5.14	45.94	0.35	19.07	0.50	81.78
Last 5	09:27:32	900.02	20.38	5.11	46.04	0.24	19.07	0.40	78.56
Last 5	09:32:32	1200.02	20.38	5.07	45.77	0.22	19.07	0.43	76.75
Last 5									
Variance 0			0.40	-0.05	-0.43			-0.16	-3.86
Variance 1			0.04	-0.04	0.10			-0.10	-3.21
Variance 2			0.00	-0.03	-0.27			0.03	-1.81

Notes

Sample@0933, Sunny 65

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-18 07:33:27

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 51 ft

Well Information:

Well ID MW-6
Well diameter 2 in
Well Total Depth 56 ft
Screen Length 10 ft
Depth to Water 19.30 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7438785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.02 in
Total Volume Pumped 22 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	07:12:23	2100.02	18.28	4.74	38.42	4.33	19.32	1.05	78.82
Last 5	07:17:23	2400.02	18.33	4.69	41.56	4.56	19.32	1.20	78.34
Last 5	07:22:23	2700.02	18.34	4.66	41.94	3.76	19.32	1.29	77.25
Last 5	07:27:23	3000.02	18.29	4.62	42.50	2.48	19.32	1.28	77.79
Last 5	07:32:23	3300.02	18.49	4.63	42.59	1.67	19.32	1.32	76.70
Variance 0			0.01	-0.03	0.38			0.09	-1.08
Variance 1			-0.04	-0.04	0.56			-0.01	0.53
Variance 2			0.19	0.01	0.09			0.04	-1.09

Notes

Sample @0732, DUP-03@0632, Sunny 57

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-18 14:57:22

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 57 ft

Pump placement from TOC 49.8 ft

Well Information:

Well ID MW-7
Well diameter 2 in
Well Total Depth 54.8 ft
Screen Length 10 ft
Depth to Water 16.82 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.7394151 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:41:08	300.03	22.79	4.50	82.57	0.24	16.85	6.53	120.91
Last 5	14:46:08	600.03	22.51	4.49	82.43	0.27	16.85	6.73	114.72
Last 5	14:51:08	900.02	22.63	4.49	82.57	0.19	16.85	6.83	112.86
Last 5	14:56:08	1200.02	22.70	4.49	82.92	0.26	16.85	6.80	112.48
Last 5									
Variance 0			-0.28	-0.00	-0.13			0.20	-6.19
Variance 1			0.12	0.00	0.14			0.10	-1.85
Variance 2			0.07	-0.01	0.35			-0.03	-0.39

Notes

Sample @1456, EB-03@1503 Sunny 77

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-18 14:17:34

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 58 ft

Pump placement from TOC 50.8 ft

Well Information:

Well ID MW-8
Well diameter 2 in
Well Total Depth 55.8 ft
Screen Length 10 ft
Depth to Water 16.5 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3488785 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.05 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	14:06:22	300.07	25.43	4.86	54.50	0.59	16.55	5.56	110.65
Last 5	14:11:22	600.02	25.59	4.85	54.40	0.66	16.55	5.59	108.32
Last 5	14:16:22	900.02	25.59	4.81	54.29	0.69	16.55	5.49	107.62
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.16	-0.00	-0.10			0.03	-2.34
Variance 2			-0.00	-0.04	-0.11			-0.10	-0.69

Notes

Sample@1416, FB-03@1400, Sunny 76

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-18 13:35:38

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 59 ft

Pump placement from TOC 51.2 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 56.2 ft
Screen Length 10 ft
Depth to Water 15.80 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3533419 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.04 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	13:12:40	1500.02	25.79	5.09	50.44	1.27	15.84	1.99	89.80
Last 5	13:17:40	1800.02	25.96	5.03	49.95	1.45	15.84	2.14	91.36
Last 5	13:22:40	2100.03	25.80	5.01	49.99	1.51	15.84	2.39	91.97
Last 5	13:27:40	2400.02	25.93	4.98	49.70	1.18	15.84	2.52	92.52
Last 5	13:32:40	2700.03	25.95	4.96	49.01	1.07	15.84	2.36	92.94
Variance 0			-0.16	-0.02	0.04			0.25	0.61
Variance 1			0.14	-0.03	-0.29			0.13	0.55
Variance 2			0.02	-0.02	-0.69			-0.17	0.43

Notes

Sample@1335, Sunny 76

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-18 11:37:40

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Gypsum
Site Name Plant Daniel Gypsum wells
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model HACH

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 59 ft

Pump placement from TOC 51.4 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 56.4 ft
Screen Length 10 ft
Depth to Water 16.87 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3533419 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.03 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	11:21:55	300.03	23.43	4.98	27.93	2.56	16.90	4.19	103.50
Last 5	11:26:55	600.02	23.60	4.98	28.21	2.27	16.90	4.17	99.11
Last 5	11:31:55	900.02	23.68	4.96	28.30	1.67	16.90	4.15	97.76
Last 5	11:36:55	1200.04	23.78	4.97	28.37	1.39	16.90	4.13	96.38
Last 5									
Variance 0			0.17	0.01	0.28			-0.02	-4.39
Variance 1			0.09	-0.02	0.09			-0.02	-1.35
Variance 2			0.10	0.01	0.07			-0.02	-1.38

Notes

Sample@1137, Sunny 73

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-16 15:43:35

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area CCR
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 53 ft

Pump placement from TOC 48.3 ft

Well Information:

Well ID MW-1
Well diameter 2 in
Well Total Depth 53.3 ft
Screen Length 10 ft
Depth to Water 19.34 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.8265614 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.8 in
Total Volume Pumped 18 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	15:22:35	1499.97	20.07	5.33	85.22	1.30	19.42	7.99	70.52
Last 5	15:27:35	1799.97	20.10	5.29	84.69	1.10	19.42	8.01	71.21
Last 5	15:32:35	2099.97	20.03	5.24	84.25	0.96	19.42	8.04	72.04
Last 5	15:37:35	2399.97	20.06	5.19	83.71	0.74	19.42	8.07	72.74
Last 5	15:42:37	2701.97	20.03	5.15	83.48	0.73	19.42	8.09	73.55
Variance 0			-0.07	-0.05	-0.44			0.03	0.82
Variance 1			0.03	-0.05	-0.54			0.03	0.70
Variance 2			-0.03	-0.04	-0.24			0.02	0.81

Notes

Sample time 1544. Cloudy 57.

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-16 13:10:18

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area CCR
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 48.2 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 17.49 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.06 in
Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:47:50	600.02	20.48	4.93	41.62	0.50	17.55	5.70	95.85
Last 5	12:52:50	900.02	20.16	4.89	42.20	0.60	17.55	5.79	96.76
Last 5	12:57:50	1199.90	20.07	4.88	42.58	0.39	17.55	5.92	95.71
Last 5	13:02:50	1499.87	20.08	4.86	42.89	0.26	17.55	6.00	96.08
Last 5	13:07:50	1799.86	20.06	4.87	43.04	0.28	17.55	6.05	95.83
Variance 0			-0.09	-0.01	0.38			0.13	-1.05
Variance 1			0.01	-0.02	0.31			0.08	0.38
Variance 2			-0.02	0.01	0.15			0.05	-0.25

Notes

Sample time 1310. Sunny 57.

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-15 15:29:28

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env.
Project Name NAMU-CCR
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 55 ft

Pump placement from TOC 51.3 ft

Well Information:

Well ID MW-5
Well diameter 2 in
Well Total Depth 56.3 ft
Screen Length 10 ft
Depth to Water 20.44 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.8354883 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.04 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	15:10:26	300.03	19.58	4.87	49.35	0.55	20.58	4.15	73.64
Last 5	15:15:26	600.02	19.63	4.85	49.47	0.48	20.58	4.11	70.84
Last 5	15:20:26	900.02	19.65	4.85	49.75	0.40	20.58	4.09	68.96
Last 5	15:25:26	1200.02	19.63	4.86	49.97	0.54	20.58	4.05	69.83
Last 5									
Variance 0			0.05	-0.02	0.12			-0.04	-2.80
Variance 1			0.02	0.01	0.28			-0.02	-1.89
Variance 2			-0.02	0.01	0.23			-0.04	0.88

Notes

No sample. PH only. Light rain 48.

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-16 14:33:55

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Gypsum stacking area CCR
Site Name Plant Daniel
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 56 ft

Pump placement from TOC 51.2 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 53.2 ft
Screen Length 10 ft
Depth to Water 17.44 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3399517 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 22 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	14:11:12	2099.98	21.45	4.96	46.32	0.24	17.45	2.24	73.42
Last 5	14:16:12	2399.98	21.06	4.97	46.55	0.20	17.45	2.34	67.45
Last 5	14:21:12	2699.98	20.80	4.96	46.79	0.18	17.45	2.45	63.49
Last 5	14:26:12	2999.98	20.72	4.96	47.07	0.22	17.45	2.49	60.49
Last 5	14:31:12	3299.98	20.65	4.95	47.28	0.27	17.45	2.61	58.47
Variance 0			-0.26	-0.01	0.24			0.12	-3.97
Variance 1			-0.08	-0.00	0.28			0.04	-3.00
Variance 2			-0.07	-0.01	0.21			0.12	-2.03

Notes

EB-01 time 1325.
Sample time 1433. Sunny 59. EB-01 time 1325.

Grab Samples

APPENDIX - B
STATISTICAL ANALYSES

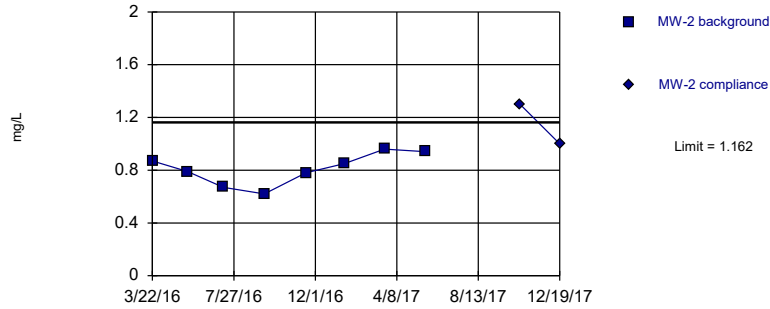
Intrawell Prediction Limits - Resample Results

Plant Daniel Client: Southern Company Data: Gypsum CCR Printed 1/23/2018, 9:36 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDsND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	MW-2	1.162	n/a	12/19/2017	1	No	8	0.81	0.1205	0	None	No	0.001075 Param Intra 1 of 2
Calcium (mg/L)	MW-9	1.047	n/a	12/19/2017	1.1	Yes	8	0.8788	0.05743	0	None	No	0.001075 Param Intra 1 of 2
pH (pH)	MW-5	4.928	4.527	12/15/2017	4.86	No	8	4.728	0.06861	0	None	No	0.0005373 Param Intra 1 of 2
Sulfate (mg/L)	MW-1	7.53	n/a	12/16/2017	7.7	Yes	17	4.224	1.479	5.882	None	No	0.001075 Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Parametric

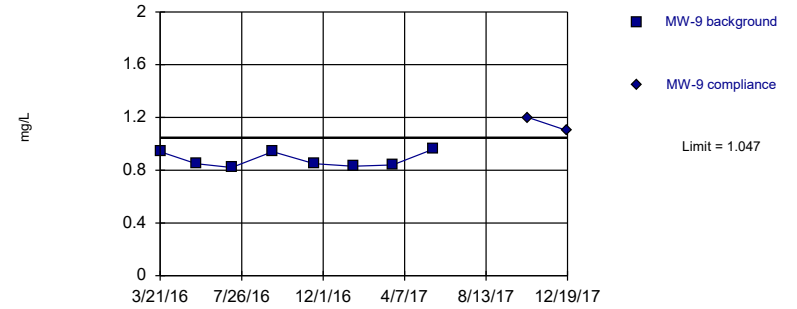


Background Data Summary: Mean=0.81, Std. Dev.=0.1205, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9474, critical = 0.749. Kappa = 2.923 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Calcium Analysis Run 1/23/2018 9:34 AM View: PL's - Resamples
Plant Daniel Client: Southern Company Data: Gypsum CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

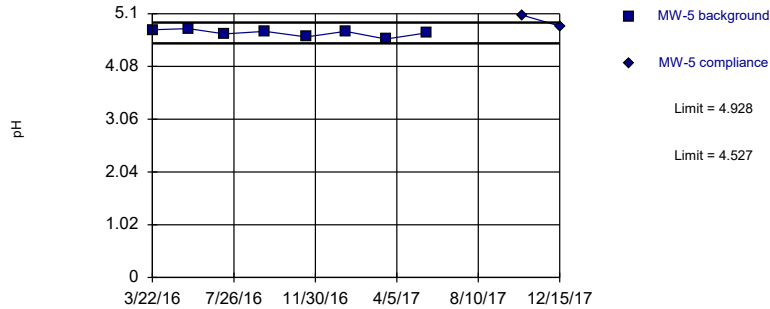


Background Data Summary: Mean=0.8788, Std. Dev.=0.05743, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8125, critical = 0.749. Kappa = 2.923 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Calcium Analysis Run 1/23/2018 9:34 AM View: PL's - Resamples
Plant Daniel Client: Southern Company Data: Gypsum CCR

Within Limits

Prediction Limit
Intrawell Parametric

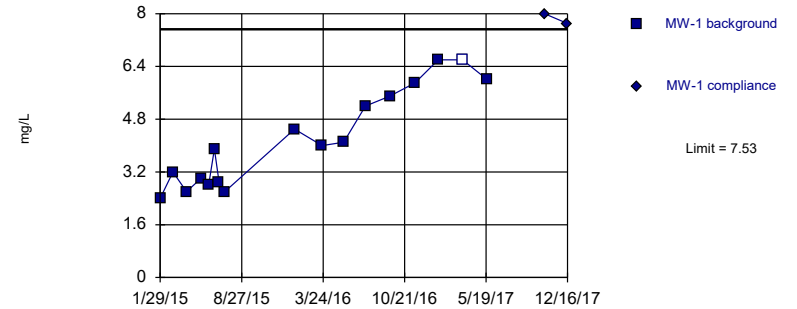


Background Data Summary: Mean=4.728, Std. Dev.=0.06861, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9373, critical = 0.749. Kappa = 2.923 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: pH Analysis Run 1/23/2018 9:34 AM View: PL's - Resamples
Plant Daniel Client: Southern Company Data: Gypsum CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=4.224, Std. Dev.=1.479, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9013, critical = 0.851. Kappa = 2.235 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Sulfate Analysis Run 1/23/2018 9:34 AM View: PL's - Resamples
Plant Daniel Client: Southern Company Data: Gypsum CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/23/2018 9:36 AM View: PL's - Resamples
Plant Daniel Client: Southern Company Data: Gypsum CCR

	MW-2	MW-2
3/22/2016	0.87	
5/16/2016	0.79	
7/11/2016	0.67	
9/13/2016	0.62	
11/17/2016	0.78	
1/16/2017	0.85	
3/20/2017	0.96	
5/23/2017	0.94	
10/18/2017		1.3
12/19/2017		1 (RS)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 1/23/2018 9:36 AM View: PL's - Resamples
Plant Daniel Client: Southern Company Data: Gypsum CCR

	MW-9	MW-9
3/21/2016	0.94	
5/16/2016	0.85	
7/11/2016	0.82	
9/13/2016	0.94	
11/17/2016	0.85	
1/17/2017	0.83	
3/20/2017	0.84	
5/23/2017	0.96	
10/18/2017		1.2
12/19/2017		1.1 (RS)

Prediction Limit

Constituent: pH (pH) Analysis Run 1/23/2018 9:36 AM View: PL's - Resamples
Plant Daniel Client: Southern Company Data: Gypsum CCR

	MW-5	MW-5
3/22/2016	4.79	
5/17/2016	4.81	
7/12/2016	4.71	
9/13/2016	4.76	
11/16/2016	4.65	
1/16/2017	4.76	
3/20/2017	4.61	
5/23/2017	4.73	
10/18/2017		5.07
12/15/2017		4.86 (R)

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 1/23/2018 9:36 AM View: PL's - Resamples

Plant Daniel Client: Southern Company Data: Gypsum CCR

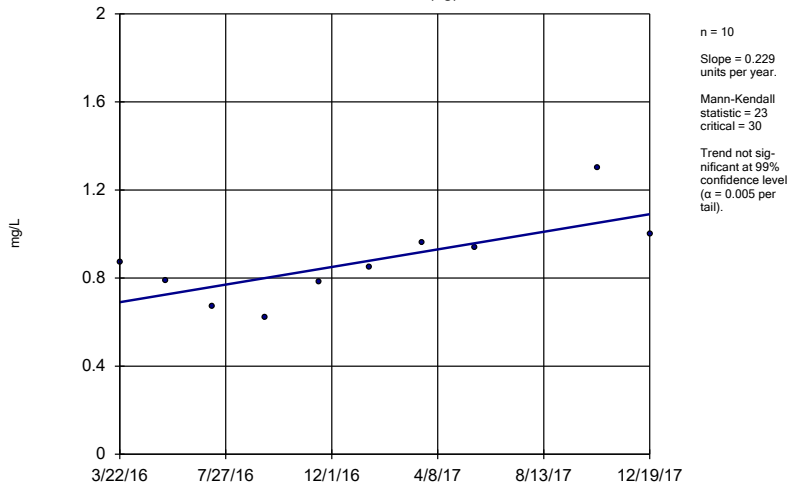
	MW-1	MW-1
1/29/2015	2.4 (J)	
3/3/2015	3.2 (J)	
4/7/2015	2.6 (J)	
5/14/2015	3 (J)	
6/3/2015	2.8 (J)	
6/18/2015	3.9 (J)	
6/30/2015	2.9 (J)	
7/15/2015	2.6 (J)	
1/11/2016	4.5 (J)	
3/22/2016	4 (B1J)	
5/17/2016	4.1 (J)	
7/12/2016	5.2	
9/13/2016	5.5	
11/17/2016	5.9	
1/16/2017	6.6	
3/20/2017	<6.6 (*)	
5/23/2017	6	
10/18/2017		8
12/16/2017		7.7 (RS)

Trend Test Summary Table

Plant Daniel Client: Southern Company Data: Gypsum CCR Printed 1/23/2018, 9:38 AM

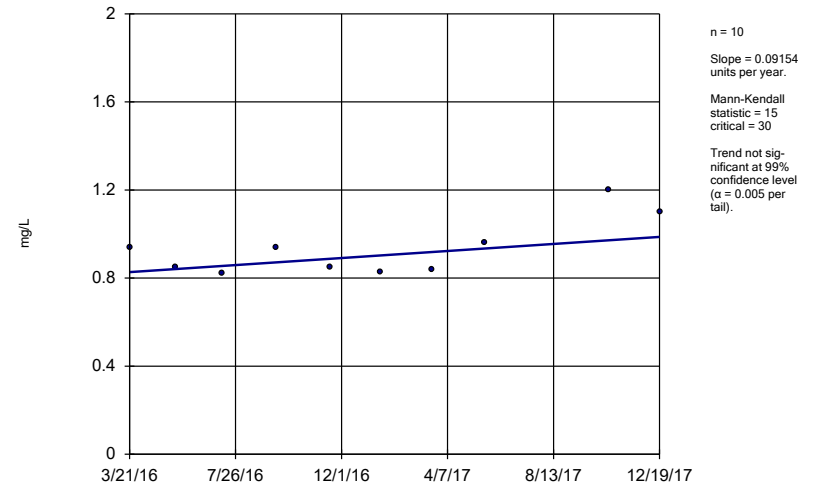
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	MW-2 (bg)	0.229	23	30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-9	0.09154	15	30	No	10	0	n/a	n/a	0.01	NP
pH (pH)	MW-5	0.02317	2	30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-1 (bg)	1.869	135	74	Yes	19	5.263	n/a	n/a	0.01	NP

Sen's Slope Estimator MW-2 (bg)



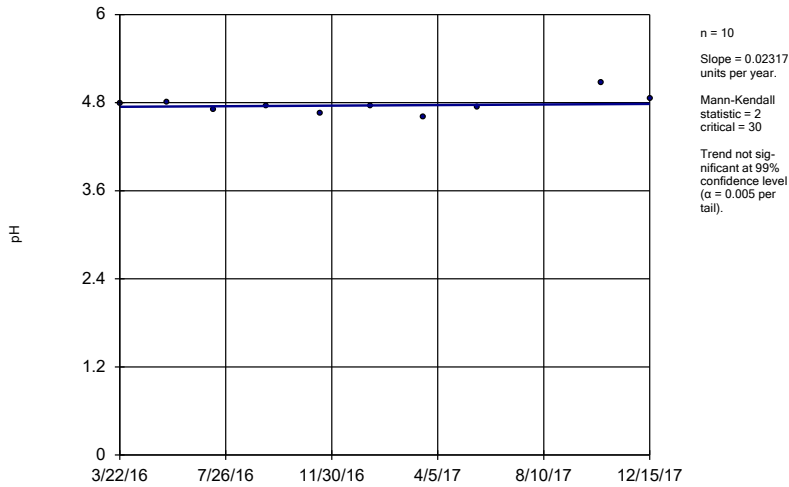
Constituent: Calcium Analysis Run 1/23/2018 9:37 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: Gypsum CCR

Sen's Slope Estimator MW-9



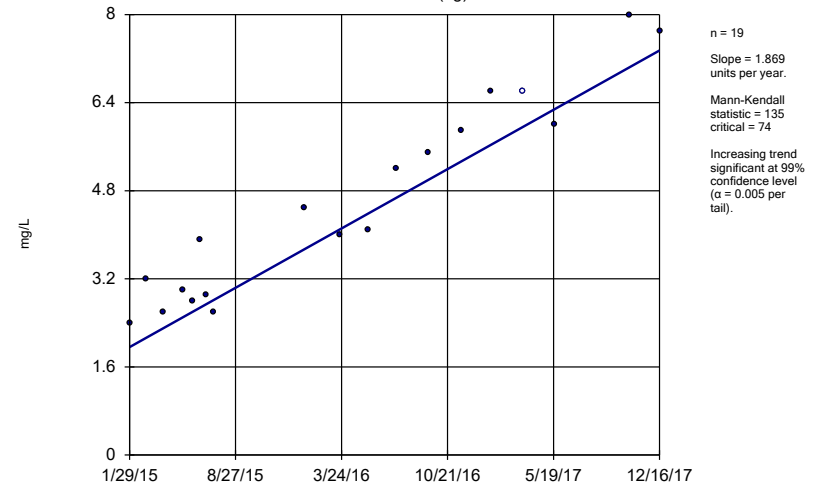
Constituent: Calcium Analysis Run 1/23/2018 9:37 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: Gypsum CCR

Sen's Slope Estimator MW-5



Constituent: pH Analysis Run 1/23/2018 9:37 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: Gypsum CCR

Sen's Slope Estimator MW-1 (bg)



Constituent: Sulfate Analysis Run 1/23/2018 9:37 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: Gypsum CCR

Sen's Slope Estimator

Constituent: Calcium (mg/L) Analysis Run 1/23/2018 9:38 AM View: Trend Tests

Plant Daniel Client: Southern Company Data: Gypsum CCR

	MW-2 (bg)
3/22/2016	0.87
5/16/2016	0.79
7/11/2016	0.67
9/13/2016	0.62
11/17/2016	0.78
1/16/2017	0.85
3/20/2017	0.96
5/23/2017	0.94
10/18/2017	1.3
12/19/2017	1 (RS)

Sen's Slope Estimator

Constituent: Calcium (mg/L) Analysis Run 1/23/2018 9:38 AM View: Trend Tests

Plant Daniel Client: Southern Company Data: Gypsum CCR

	MW-9
3/21/2016	0.94
5/16/2016	0.85
7/11/2016	0.82
9/13/2016	0.94
11/17/2016	0.85
1/17/2017	0.83
3/20/2017	0.84
5/23/2017	0.96
10/18/2017	1.2
12/19/2017	1.1 (RS)

Sen's Slope Estimator

Constituent: pH (pH) Analysis Run 1/23/2018 9:38 AM View: Trend Tests

Plant Daniel Client: Southern Company Data: Gypsum CCR

	MW-5
3/22/2016	4.79
5/17/2016	4.81
7/12/2016	4.71
9/13/2016	4.76
11/16/2016	4.65
1/16/2017	4.76
3/20/2017	4.61
5/23/2017	4.73
10/18/2017	5.07
12/15/2017	4.86 (R)

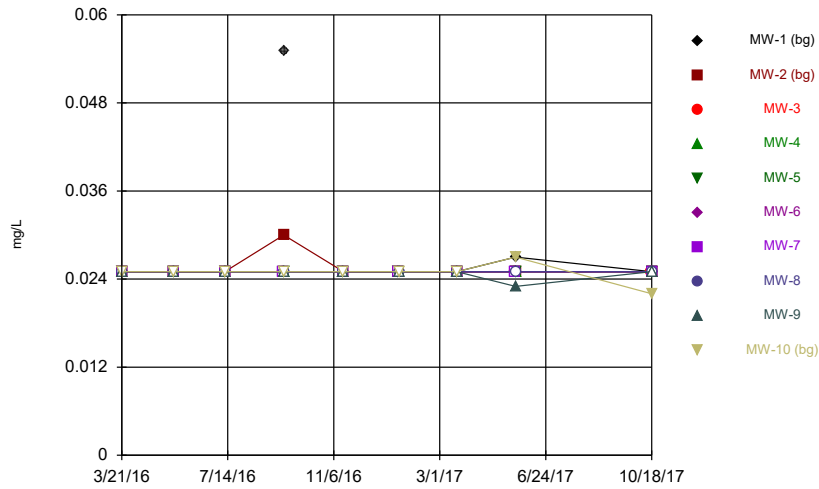
Sen's Slope Estimator

Constituent: Sulfate (mg/L) Analysis Run 1/23/2018 9:38 AM View: Trend Tests

Plant Daniel Client: Southern Company Data: Gypsum CCR

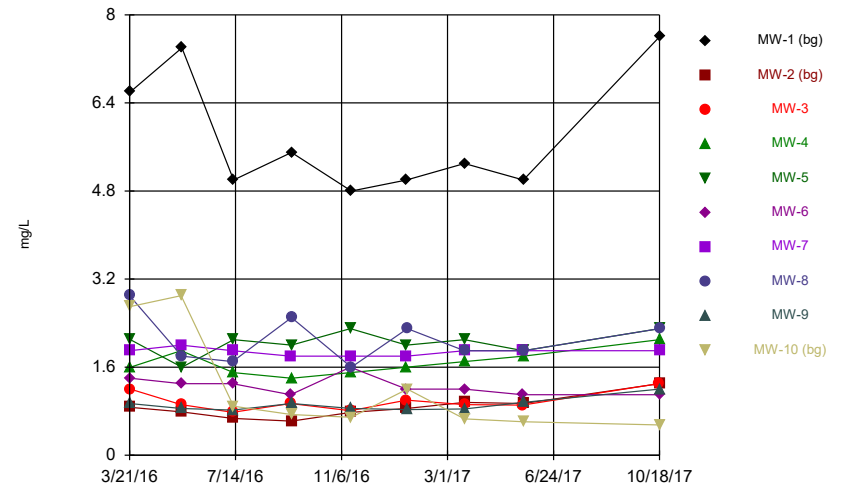
	MW-1 (bg)
1/29/2015	2.4 (J)
3/3/2015	3.2 (J)
4/7/2015	2.6 (J)
5/14/2015	3 (J)
6/3/2015	2.8 (J)
6/18/2015	3.9 (J)
6/30/2015	2.9 (J)
7/15/2015	2.6 (J)
1/11/2016	4.5 (J)
3/22/2016	4 (B1J)
5/17/2016	4.1 (J)
7/12/2016	5.2
9/13/2016	5.5
11/17/2016	5.9
1/16/2017	6.6
3/20/2017	<6.6 (*)
5/23/2017	6
10/18/2017	8
12/16/2017	7.7 (RS)

Time Series



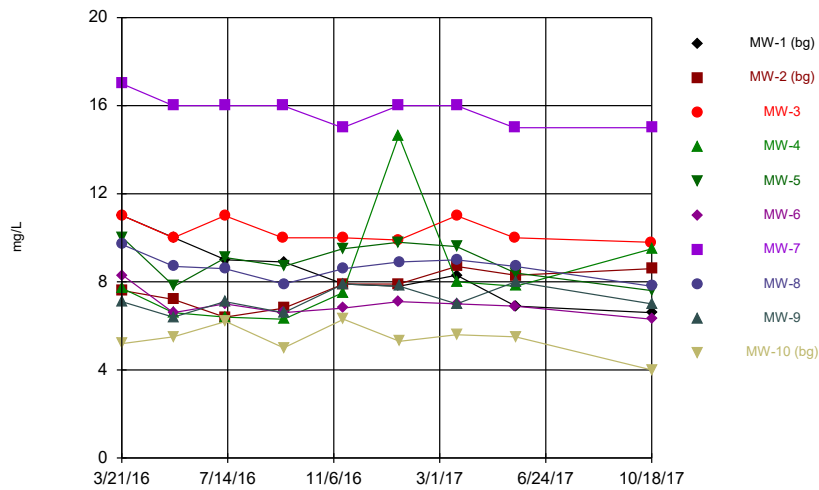
Constituent: Boron Analysis Run 11/17/2017 10:55 AM View: Time Series
Plant Daniel Client: Southern Company Data: Gypsum CCR

Time Series



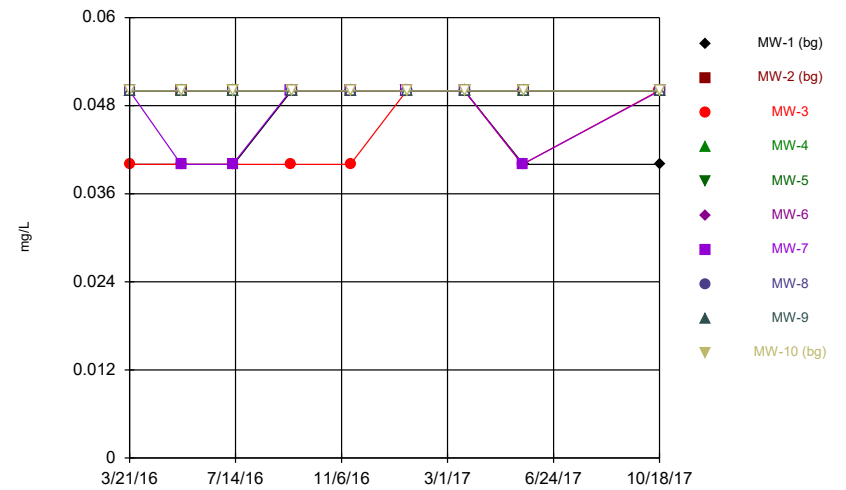
Constituent: Calcium Analysis Run 11/17/2017 10:55 AM View: Time Series
Plant Daniel Client: Southern Company Data: Gypsum CCR

Time Series



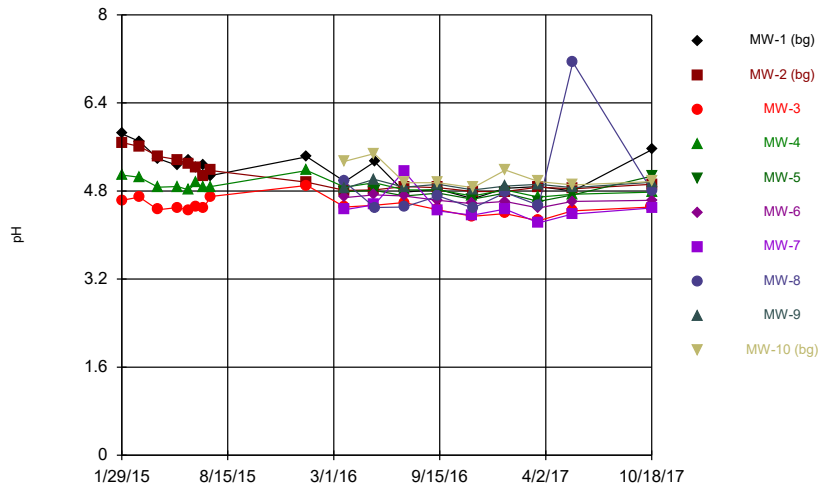
Constituent: Chloride Analysis Run 11/17/2017 10:55 AM View: Time Series
Plant Daniel Client: Southern Company Data: Gypsum CCR

Time Series



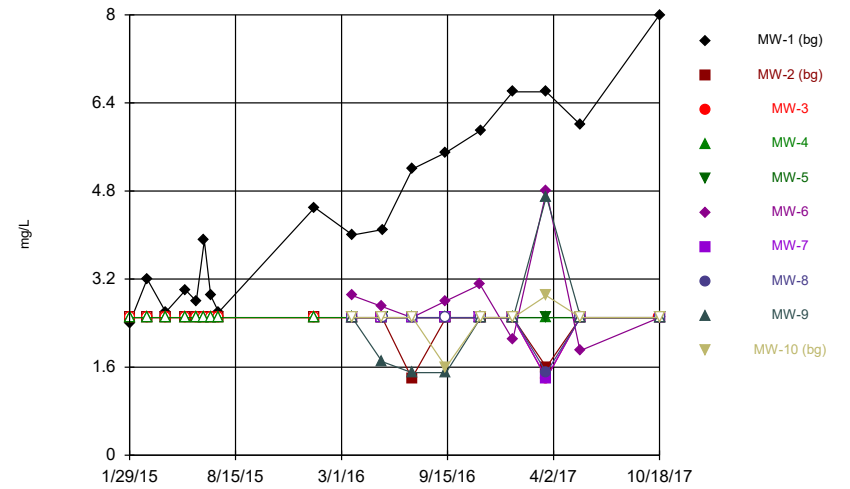
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Plant Daniel Client: Southern Company Data: Gypsum CCR

Time Series



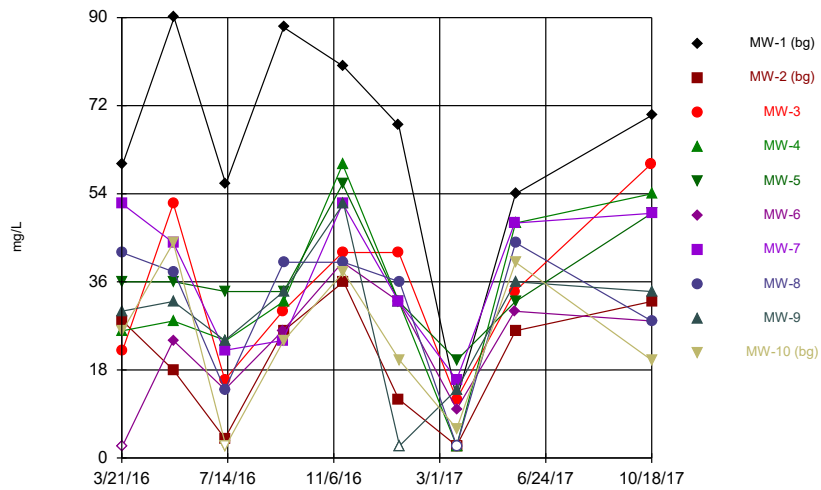
Constituent: pH Analysis Run 11/17/2017 10:55 AM View: Time Series
 Plant Daniel Client: Southern Company Data: Gypsum CCR

Time Series



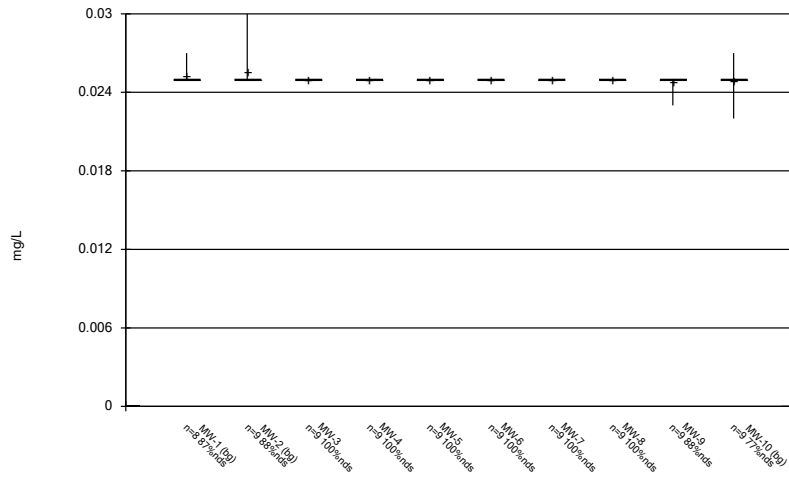
Constituent: Sulfate Analysis Run 11/17/2017 10:55 AM View: Time Series
 Plant Daniel Client: Southern Company Data: Gypsum CCR

Time Series



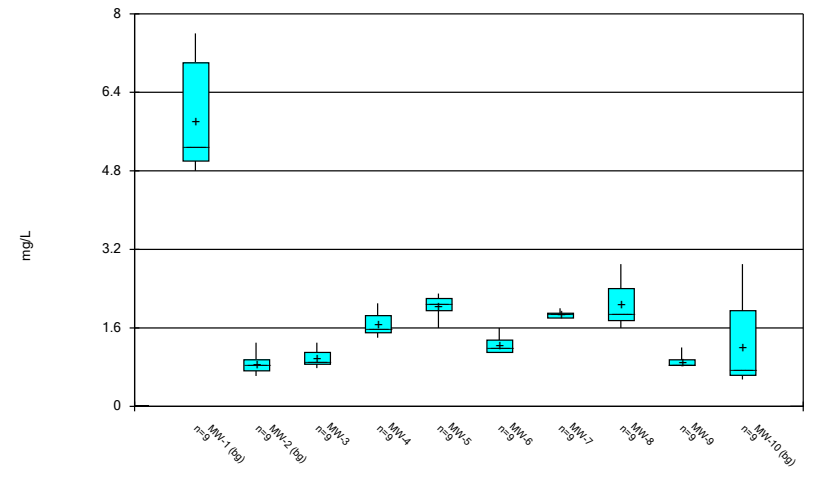
Constituent: Total Dissolved Solids Analysis Run 11/17/2017 10:55 AM View: Time Series
 Plant Daniel Client: Southern Company Data: Gypsum CCR

Box & Whiskers Plot



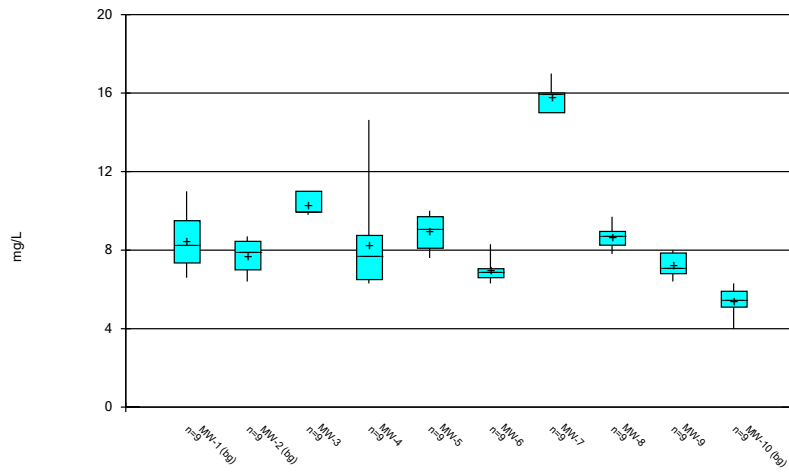
Constituent: Boron Analysis Run 11/17/2017 10:56 AM View: Time Series
Plant Daniel Client: Southern Company Data: Gypsum CCR

Box & Whiskers Plot



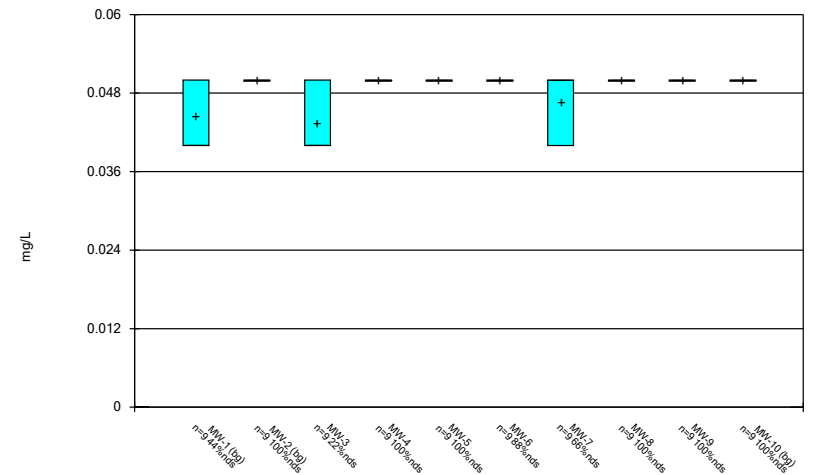
Constituent: Calcium Analysis Run 11/17/2017 10:56 AM View: Time Series
Plant Daniel Client: Southern Company Data: Gypsum CCR

Box & Whiskers Plot



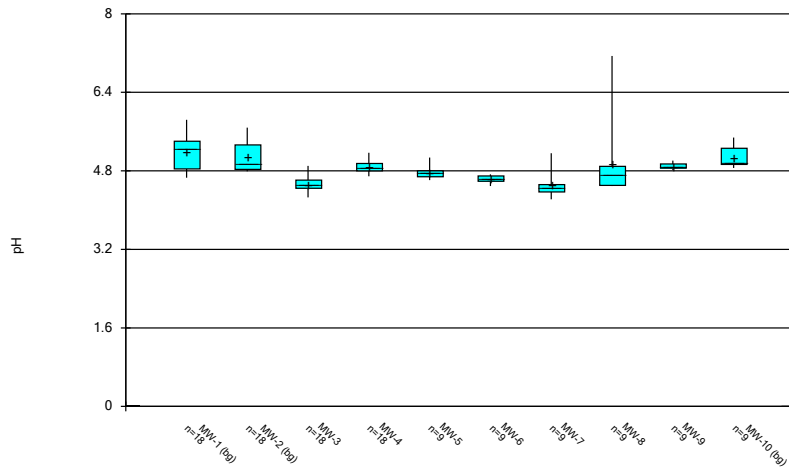
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Plant Daniel Client: Southern Company Data: Gypsum CCR

Box & Whiskers Plot



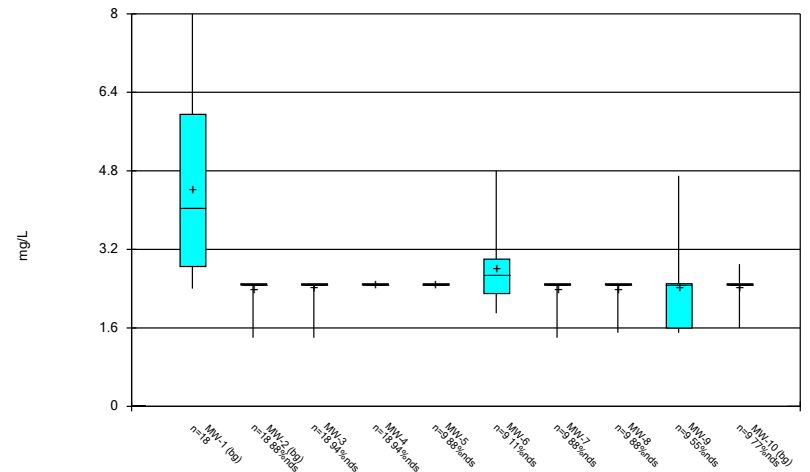
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Plant Daniel Client: Southern Company Data: Gypsum CCR

Box & Whiskers Plot



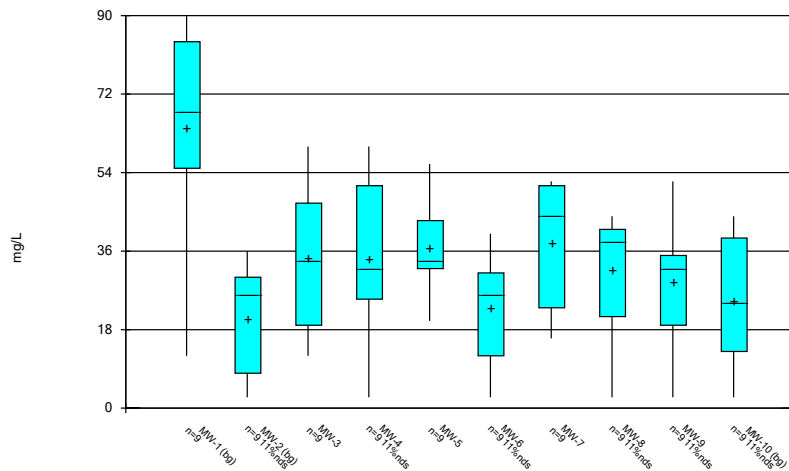
Constituent: pH Analysis Run 11/17/2017 10:56 AM View: Time Series
 Plant Daniel Client: Southern Company Data: Gypsum CCR

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 11/17/2017 10:56 AM View: Time Series
 Plant Daniel Client: Southern Company Data: Gypsum CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/17/2017 10:56 AM View: Time Series
 Plant Daniel Client: Southern Company Data: Gypsum CCR