

2017 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GULF POWER COMPANY - PLANT SMITH

ASH POND

January 31, 2018

Prepared For:



Gulf Power

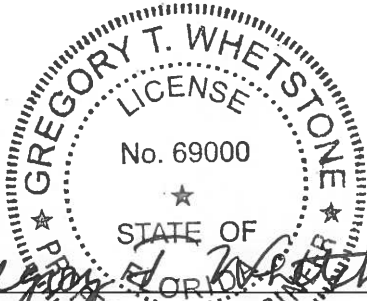
Prepared By:



**Southern
Company**

CERTIFICATION STATEMENT

This 2017 *Annual Groundwater Monitoring and Corrective Action Report, Gulf Power Company - Plant Smith – Ash Pond* has been prepared to comply with the United States Environmental Protection Agency coal combustion residual rule (40 Code of Federal Regulations (CFR) Part 257, Subpart D) under the supervision of a licensed Professional Engineer and Professional Geologist with Southern Company Services.



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EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations (CFR) Part 257, Subpart D), this *2017 Annual Groundwater Monitoring and Corrective Action Report* documents the activities completed to establish the groundwater monitoring program and actions through 2017 conducted at Gulf Power Company's (Gulf Power) Plant Smith (Site) for the permitted CCR Ash Pond (CCR unit). The 165-acre CCR unit ceased receipt of CCR waste in March 2015 and Gulf Power is in the process of planning the closure of the unit.

Gulf Power installed and certified a groundwater detection monitoring system around the 165-acre CCR unit to monitor groundwater within the uppermost aquifer at the Site. Monitoring wells in the certified groundwater detection monitoring network are listed below.

- Background: MW-02, MW-03, and MW-12;
- Downgradient: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14; and
- Piezometers: MW-01, MW-04, and MW-05.

Eight independent background samples were collected and analyzed for Appendix III and IV constituents from wells in the certified monitoring network between February 2016 and May 2017. An initial detection monitoring event was conducted from October 12 and 13, 2017. Samples were analyzed for Appendix III constituents.

Analytical data from the initial detection monitoring event in October 2017 were statistically analyzed in accordance with the PE-certified *Statistical Analysis Plan* (Groundwater Stats Consulting, LLC, 2017). Following completion of initial statistical analysis, wells and parameters exhibiting exceedances were resampled on December 27, 2017 to verify the initial statistically significant increases (SSIs), in accordance with the 1-of-2 verification resample plan. Based on the analysis of data, resampled data confirmed all of the initial SSIs. The following SSIs were observed:

- Boron: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14;
- Calcium: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14;
- Chloride: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14;
- Sulfate: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14; and
- Total Dissolved Solids (TDS): MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14;

Statistical evaluations of the groundwater monitoring data for the Site identified SSIs of Appendix III groundwater monitoring parameters above background. In accordance with 40 CFR §257.94(e), Gulf Power will conduct an alternate source demonstration and/or initiate Assessment Monitoring program.

The first 2018 semi-annual detection monitoring event is planned for April 2018

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations (CFR) Part 257, Subpart D), this *2017 Annual Groundwater Monitoring and Corrective Action Report* documents the 2017 groundwater monitoring activities conducted at Gulf Power Company's (Gulf Power) Plant Smith (Site) for the permitted CCR Ash Pond (CCR unit).

The Site is located at 4300 Highway 2300, Bay County, Florida, and is situated on approximately 1,560 acres. A Site location map is provided in Figure 1. Site topography is relatively flat. The Site is bordered by undeveloped land to the north and east, Alligator Bayou to the west, and North Bay to the south. The CCR unit is located on the southern portion of the Site near North Bay. Semi-annual monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of 40 CFR §257.90 through §257.94.

This report documents the activities completed to establish the groundwater monitoring program including monitoring well installation, background sampling, and actions through the 2017 calendar year in accordance with 40 CFR §257.90(e).

1.1 Regional Geology & Hydrogeologic Setting

According to Pratt (1996), the principal aquifers beneath Bay County include the surficial aquifer system, the intermediate system, and the Floridan Aquifer System. The surficial aquifer system is an unconfined system formed by recent terrace sands, the Citronelle Formation, and the upper portions of the Intracoastal Formation in hydraulic connection with these sediments. The general direction of flow is toward the south-southwest.

The intermediate aquifer system in Bay County is semi-confined and consists of the low permeability sediments of the Jackson Bluff and the Intracoastal Formations. Permeable portions of the Intracoastal Formation provide sufficient quantities of water for potable use. Overall, the intermediate aquifer system acts as a confining unit for the underlying Florida Aquifer System.

Wells were screened in the uppermost, water-bearing zone in the undifferentiated quaternary alluvium of the surficial aquifer system overlaying the Jackson Bluff formation. This unit is considered the uppermost aquifer for groundwater monitoring purposes. Site-specific lithology in the uppermost aquifer consists primarily of sand, silt, and clay mixtures. Groundwater in the uppermost aquifer at the Site is encountered in a laterally-extensive water-bearing unit of predominantly fine sand from approximately 5 to -20 feet (ft) elevation relative to the North American Vertical Datum of 1988 (NAVD88). Monitoring wells and piezometers were screened in the uppermost aquifer between approximately 2 and -21 ft NAVD

1.2 Groundwater Monitoring Systems and CCR Unit Descriptions

The CCR unit occupies approximately 165 acres. Fly ash, bottom ash, and other low-volume waste were sluiced to the CCR unit until March 2015. The CCR unit has ceased receipt of the CCR waste but continues to receive non-CCR wastewater. Gulf Power is in the process of planning the closure of the CCR unit.

Pursuant to 40 CFR §257.91, Gulf Power installed and certified a groundwater detection monitoring system around the CCR unit to monitor groundwater within the uppermost aquifer at the Site. Background monitoring wells were installed to establish Site-wide background water quality. The monitoring well network was installed at the waste boundary of the CCR unit. Monitoring wells in the certified groundwater detection monitoring network are listed below.

- Background: MW-02, MW-03, and MW-12;
- Downgradient: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14; and
- Piezometers: MW-01, MW-04, and MW-05.

Monitoring wells and piezometers details, including installation date, coordinates, elevations, screen interval, and designation, are summarized in Table 1. Figure 2 depicts the groundwater monitoring network system relative to the CCR unit.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with 40 CFR §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 groundwater program-related activities performed prior to 2017. All groundwater sampling was performed in accordance with 40 CFR §257.93. Samples were collected from wells in the Professional Engineer (PE)-certified monitoring systems shown on Figure 2. A summary of groundwater sampling events completed at the Site, including eight background and one detection monitoring events, is provided in Table 2.

2.1 Monitoring Well Installation and Maintenance

The groundwater monitoring system installed at the CCR unit (1) consists of a sufficient number of wells, (2) was installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer, and (3) meets the performance standards of 40 CFR §257.91(a). The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of Site-specific hydrogeologic conditions and certified by a PE.

In summary, monitoring well-related activities included:

- Installing the following groundwater monitoring wells and piezometers in October 2015 and February 2016:
 - Background: MW-02, MW-03, and MW-12;
 - Downgradient: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14; and
 - Piezometers: MW-01, MW-04, and MW-05.
- Developing new wells and piezometers using a submersible pump to restore the natural hydraulic conductivity of the formation, and to remove fine-grained sediment to ensure low-turbidity groundwater samples.
- Surveying new wells and piezometers for location and top-of-casing (TOC) elevation.

2.2 Background Monitoring

Eight independent samples were collected from wells in the certified monitoring network between February 2016 and May 2017. Samples were analyzed for Appendix III and IV constituents. Data reports for the background sampling events are included in Appendix A.

2.3 Initial Detection Monitoring

An initial detection monitoring event was conducted on October 12 and 13, 2017. Groundwater samples were collected from background and downgradient monitoring wells and analyzed for Appendix III constituents. Verification resampling was conducted December 27, 2017. Analytical data from the initial detection groundwater monitoring event is provided in Table 3 and included in Appendix A. Analytical data from the resample verification event are also included in Appendix A.

3.0 SAMPLE METHODOLOGY & ANALYSES

The following describes the methods used to conduct groundwater monitoring at the CCR unit.

3.1 Groundwater Elevation Measurement

Prior to each sampling event, groundwater elevations were recorded from the certified well network and piezometers. Groundwater elevations recorded during the background and detection monitoring events are summarized in Table 4. Groundwater elevation data was used to develop the potentiometric surface elevation contour map provided as Figure 3. As shown on Figure 3, the general direction of groundwater flow is radial from the CCR unit. The groundwater flow pattern observed during the October 2017 detection monitoring event is consistent with observations made during the background period.

3.2 Groundwater Sampling

Groundwater samples were collected in accordance with 40 CFR §257.93(a). Wells were purged and sampled using a peristaltic pump using new disposable polyethylene tubing. Monitoring wells were purged and sampled using low-flow sampling procedures. A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, and dissolved oxygen) during well purging to verify stabilization prior to sampling. Turbidity was measured using a Hach 2100Q (or similar) portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- pH \pm 0.2 Standard Units (S.U.).
- Conductivity \pm 5%.
- DO < 20% saturation. If DO > 20% saturation, \pm 0.2 milligrams per liter (mg/L) or \pm 10%, whichever is greater. No criterion apply if DO < 0.5 mg/L.
- Turbidity < 20 nephelometric turbidity units (NTU).

Once stabilization was achieved, samples were collected into appropriately-preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Test America, Inc. (TAL), in Pensacola, Florida following chain-of-custody protocol.

3.3 Laboratory Analyses

Groundwater samples collected for background monitoring included both Appendix III and Appendix IV parameters. Groundwater samples collected in October 2017 for detection monitoring were analyzed for Appendix III monitoring parameters only. Analytical methods used for groundwater monitoring parameters are provided in laboratory reports in Appendix A.

Laboratory analyses were performed by TAL. TAL are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed for this project. In addition, TAL laboratories are certified to perform analysis by the State of Florida. Groundwater data and chain-of-custody records for the monitoring events are presented in Appendix A.

3.4 Quality Assurance & Quality Control Summary

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at a rate of one sample per every 10 groundwater samples. In addition, equipment blanks and duplicate samples

were collected during each sampling event. Data from these QA/QC samples were evaluated during data validation and is 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 relative percent differences (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).

4.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III groundwater monitoring data was performed on samples collected from the certified groundwater monitoring network pursuant to 40 CFR §257.93, and following the appropriate PE-certified method. The statistical method used at the site was developed by Groundwater Stats Consulting, LLC. (GSC), in accordance with 40 CFR §257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (USEPA, 2009). To develop the statistical method, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III parameter. Subsequent detection monitoring results were compared to the statistical limits to determine if concentrations were statistically different from background.

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.

Both interwell and intrawell statistical methods were used to evaluate groundwater quality data at the Site. The interwell prediction limits pool analytical data from background monitoring wells to establish a statistical limit for an individual constituent. This method is appropriate where there is no significant variability in the data to be pooled as determined using an Analysis of Variability (ANOVA) test. Groundwater analytical data from downgradient wells is then compared to the statistical limit for each constituent. Intrawell prediction limits use background data within a given well to establish limits for parameters at that well. Thus, a unique statistical limit is developed for each well.

To determine whether data from groundwater monitoring wells could be pooled and interwell statistical methods used, the ANOVA test was performed to understand whether there was significant variability in the data set. Testing showed that background well data did not exhibit spatial variation for fluoride or sulfate, making them eligible for interwell methods. Further screening was required for boron, calcium, chloride, pH and total dissolved solids (TDS). Confidence intervals were developed for boron, calcium, chloride, pH and TDS. When a confidence interval for a constituent is above background, interwell methods are recommended for that constituent. It was determined that at least one confidence interval for boron, calcium, chloride, and TDS were above background; therefore, interwell methods were used to evaluate those constituents. Confidence intervals for pH were found to be within their respective background standard for pH; therefore, intrawell methods were used to evaluate pH.

4.2 Statistical Analyses Results

Analytical data from the initial detection monitoring event in October 2017 were statistically analyzed in accordance with the PE-certified Statistical Analysis Plan (October 2017). Following completion of initial statistical analysis, wells and parameters exhibiting exceedances were resampled on December 27, 2017 to verify the initial SSIs in accordance with the 1-of-2 verification resample plan. Based on the analysis of data, resampled data confirmed all of the initial SSIs. Table B-1 in Appendix B (pages B-1 through B-2) presents a summary of the statistical analysis, including prediction limits, analytical results for the initial detection monitoring event and subsequent verification sampling, and whether the results were statistically significant (i.e. exceedances). Sanitas output tables containing additional detail are provided in Appendix B (pages B-4 and B-10). The following SSIs were observed:

- Boron: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14;
- Calcium: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14;
- Chloride: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14;
- Sulfate: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14; and
- TDS: MW-06, MW-07, MW-08, MW-09, MW-10, MW-11, MW-13, and MW-14;

Time series plots provided in Appendix B (pages B-12 through B-13) were used to evaluate concentrations in wells over time and to visually compare concentrations in downgradient wells to those in background wells. While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. The Sen's Slope/Mann Kendall trend test was performed for all wells and parameters where SSIs were observed (listed above) to determine whether concentrations are statistically significantly increasing, decreasing or stabilizing over time. Additionally, upgradient wells were included in the trend analyses as a reference for the same parameters.

A trend test summary table is provided in Appendix B (pages B-15 through B-29). No statistically significant increasing trends were observed. Statistically significant decreasing trends were observed in MW-9 for calcium and MW-11 for calcium, chloride, and TDS. The lack of increasing statistically significant trends indicates that concentrations in wells are stable or decreasing.

4.3 Appendix IV Background Data

In accordance with 40 CFR §257.95, Gulf Power will statistically analyze and compare Appendix IV groundwater quality data to groundwater protection standards if assessment monitoring is implemented.

5.0 MONITORING PROGRAM STATUS

As discussed in previous sections, SSIs of Appendix III parameters were identified at the Ash Pond. In accordance with 40 CFR §257.94(e), Gulf Power will prepare alternate source demonstration (ASD) and/or implement assessment monitoring.

6.0 CONCLUSIONS & FUTURE ACTIONS

Statistical evaluations of the groundwater monitoring data for the Site identified SSIs of Appendix III groundwater monitoring parameters above background. In accordance with 40 CFR §257.94(e), Gulf Power will conduct an ASD and/or initiate an assessment monitoring program.

The first 2018 semi-annual detection monitoring event is planned for April 2018.

7.0 REFERENCES

- GSC, 2017. *Gulf Power Company Plant Smith Ash Pond Statistical Analysis Plan*. October.
- Pratt, Thomas R., Christopher J. Richards, Katherine A. Milla, Jeffrey R. Wagner, Jay L. Johnson, and Ross J. Curry. 1996. *Hydrogeology of the Northwest Florida Water Management District*. Water Resources Special Report 96-4. October.
- USEPA, 2009. *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance*. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March.
- USEPA, 2011. *Region IV Data Validation Standard Operating Procedures*. Science and Ecosystem Support Division. Region IV. Athens, GA. September.
- USEPA, 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. *40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule*. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81. April.
- USEPA, 2017. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.

TABLES

Table 1
Monitoring Well Network Summary

Well Name	Installation Date	Northing	Easting	Ground Elevation	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Designation
MW-01	11/11/2015	464368.78	1589789.76	11.09	10.75	1.15	-8.85	Piezometer
MW-02	11/10/2015	464419.66	1592286.78	10.26	13.29	-2.71	-12.71	Background
MW-03	11/10/2015	464322.49	1594277.21	10.98	14.06	-8.94	-18.94	Background
MW-04	11/7/2015	464027.17	1591388.6	12	15.05	2.25	-7.75	Piezometer
MW-05	11/4/2015	463987.97	1592784.03	11.18	14.13	-1.97	-11.97	Piezometer
MW-06	11/17/2015	463858.8	1591389.13	24.18	23.82	-5.38	-15.38	Downgradient
MW-07	11/3/2015	463856.65	1592774.97	21.72	21.42	-7.88	-17.88	Downgradient
MW-08	11/17/2015	461649.15	1590479.94	21.33	24.31	-8.39	-18.39	Downgradient
MW-09	11/17/2015	460663.62	1590695.95	12.49	15.37	-6.73	-16.73	Downgradient
MW-10	11/20/2015	461234.34	1592098.52	10.94	13.93	-8.67	-18.67	Downgradient
MW-11	11/21/2015	462157.18	1593298.86	13.42	16.51	-6.49	-16.49	Downgradient
MW-12	11/11/2015	462362	1589322.96	8.21	11.14	-10.56	-20.56	Background
MW-13	11/11/2015	462676.94	1590589.33	23.53	26.54	-6.36	-16.36	Downgradient
MW-14	11/10/2015	460892.89	1590173.47	22.11	24.95	-5.69	-15.69	Downgradient

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.

**Table 2
Groundwater Sampling Event Summary**

Well Name	Background 1	Background 2	Background 3	Background 4	Background 5	Background 6	Background 7	Background 8	Detection 1
MW-02	2/22/2016	4/25/2016	6/27/2016	8/29/2016	11/1/2016	1/4/2017	3/10/2017	5/11/2017	10/12/2017
MW-03	2/22/2016	4/25/2016	6/27/2016	8/29/2016	11/1/2016	1/4/2017	3/10/2017	5/11/2017	10/12/2017
MW-06	2/23/2016	4/26/2016	6/28/2016	8/29/2016	11/2/2016	1/5/2017	3/11/2017	5/11/2017	10/12/2017
MW-07	2/23/2016	4/26/2016	6/28/2016	8/29/2016	11/2/2016	1/5/2017	3/11/2017	5/12/2017	10/12/2017
MW-08	2/23/2016	4/27/2016	6/28/2016	8/29/2016	11/2/2016	1/5/2017	3/11/2017	5/12/2017	10/13/2017
MW-09	2/23/2016	4/27/2016	6/28/2016	8/30/2016	11/3/2016	1/5/2017	3/11/2017	5/12/2017	10/13/2017
MW-10	2/23/2016	4/26/2016	6/28/2016	8/30/2016	11/3/2016	1/5/2017	3/11/2017	5/12/2017	10/13/2017
MW-11	2/22/2016	4/26/2016	6/28/2016	8/30/2016	11/3/2016	1/5/2017	3/11/2017	5/12/2017	10/13/2017
MW-12	2/22/2016	4/26/2016	6/27/2016	8/29/2016	11/1/2016	1/4/2017	3/10/2017	5/11/2017	10/12/2017
MW-13	2/23/2016	4/27/2016	6/28/2016	8/29/2016	11/2/2016	1/5/2017	3/11/2017	5/12/2017	10/13/2017
MW-14	2/23/2016	4/27/2016	6/28/2016	8/29/2016	11/3/2016	1/5/2017	3/11/2017	5/12/2017	10/13/2017

Notes:

1. Background indicates a sampling event conducted during background data collection, and includes groundwater samples analyzed for Appendix III and IV parameters.
2. Detection indicates a sampling event conducted during detection monitoring, and includes groundwater samples analyzed for Appendix III parameters.

Table 3
Summary of Groundwater Analytical Data - October 2017

Monitoring Well	Sample Date	Boron (mg/L)	Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	pH (S.U.)	Sulfate (mg/L)	TDS (mg/L)
MW-02	10/12/2017	<0.021	45	12	0.27	6.66	<1.4	150
MW-03	10/12/2017	<0.021	1.9	12	<0.032	4.74	<1.4	30
MW-06	10/12/2017	8.5	280	3,000	0.04 I	5.37	520	5,500
MW-07	10/12/2017	2.9	190	1,400	<0.032	6.13	670	3,000
MW-08	10/13/2017	15	560	3,300	<0.032	4.46	910	6,400
MW-09	10/13/2017	9.6	370	2,400	0.04 I	4.95	760	5,100
MW-10	10/13/2017	11	520	2,900	<0.032	5.33	790	6,400
MW-11	10/13/2017	3.9	83	1,600	<0.032	6.73	220	3,000
MW-12	10/12/2017	0.082	32	190	0.12	5.90	<1.4	470
MW-13	10/13/2017	17	810	4,800	0.04 I	6.87	1,000	9,600
MW-14	10/13/2017	12	300	2,400	0.05 I	6.68	650	5,000

Notes:

1. < indicates the parameter was not detected above the laboratory method detection limit (MDL).
2. When values are followed by a "I" flag, this indicates that the value is an estimated analyte concentration detected between the MDL and the laboratory reporting limit (PQL).
3. mg/L indicates milligrams per liter.
4. S.U. indicates standard units.

Table 4
Summary of Groundwater Elevations

Monitoring Well	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-01	464368.78	1589789.76	10.75	2/18/2016	5.22	5.53
MW-02	464419.66	1592286.78	13.29	2/18/2016	3.86	9.43
MW-03	464322.49	1594277.21	14.06	2/18/2016	5.52	8.54
MW-04	464027.17	1591388.6	15.05	2/18/2016	6.57	8.48
MW-05	463987.97	1592784.03	14.13	2/18/2016	5.11	9.02
MW-06	463858.8	1591389.13	23.82	2/18/2016	13.62	10.20
MW-07	463856.65	1592774.97	21.42	2/18/2016	10.7	10.72
MW-08	461649.15	1590479.94	24.31	2/18/2016	12.72	11.59
MW-09	460663.62	1590695.95	15.37	2/18/2016	8.95	6.42
MW-10	461234.34	1592098.52	13.93	2/18/2016	5.40	8.53
MW-11	462157.18	1593298.86	16.51	2/18/2016	7.87	8.64
MW-12	462362	1589322.96	11.14	2/18/2016	10.58	0.56
MW-13	462676.94	1590589.33	26.54	2/18/2016	13.78	12.76
MW-14	460892.89	1590173.47	24.95	2/18/2016	19.25	5.70

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.
3. Depth to water measurements are in feet.
4. * depth to water is not consistent and is considered anomalous.

Table 4
Summary of Groundwater Elevations

Monitoring Well	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-01	464368.78	1589789.76	10.75	4/25/2016	5.33	5.42
MW-02	464419.66	1592286.78	13.29	4/25/2016	3.55	9.74
MW-03	464322.49	1594277.21	14.06	4/25/2016	5.51	8.55
MW-04	464027.17	1591388.6	15.05	4/25/2016	6.77	8.28
MW-05	463987.97	1592784.03	14.13	4/25/2016	5.49	8.64
MW-06	463858.8	1591389.13	23.82	4/25/2016	13.69	10.13
MW-07	463856.65	1592774.97	21.42	4/25/2016	11.58	9.84
MW-08	461649.15	1590479.94	24.31	4/25/2016	13.45	10.86
MW-09	460663.62	1590695.95	15.37	4/25/2016	9.16	6.21
MW-10	461234.34	1592098.52	13.93	4/25/2016	5.75	8.18
MW-11	462157.18	1593298.86	16.51	4/25/2016	8.87	7.64
MW-12	462362	1589322.96	11.14	4/25/2016	9.35	1.79
MW-13	462676.94	1590589.33	26.54	4/25/2016	14.34	12.20
MW-14	460892.89	1590173.47	24.95	4/25/2016	19.49	5.46

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.
3. Depth to water measurements are in feet.

Table 4
Summary of Groundwater Elevations

Monitoring Well	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-01	464368.78	1589789.76	10.75	6/27/2016	5.56	5.19
MW-02	464419.66	1592286.78	13.29	6/27/2016	4.89	8.40
MW-03	464322.49	1594277.21	14.06	6/27/2016	5.95	8.11
MW-04	464027.17	1591388.6	15.05	6/27/2016	7.12	7.93
MW-05	463987.97	1592784.03	14.13	6/27/2016	6.12	8.01
MW-06	463858.8	1591389.13	23.82	6/27/2016	14.05	9.77
MW-07	463856.65	1592774.97	21.42	6/27/2016	12.17	9.25
MW-08	461649.15	1590479.94	24.31	6/27/2016	15.09	9.22
MW-09	460663.62	1590695.95	15.37	6/27/2016	9.81	5.56
MW-10	461234.34	1592098.52	13.93	6/27/2016	6.64	7.29
MW-11	462157.18	1593298.86	16.51	6/27/2016	8.97	7.54
MW-12	462362	1589322.96	11.14	6/27/2016	9.88	1.26
MW-13	462676.94	1590589.33	26.54	6/27/2016	15.43	11.11
MW-14	460892.89	1590173.47	24.95	6/27/2016	20.77	4.18

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.
3. Depth to water measurements are in feet.

Table 4
Summary of Groundwater Elevations

Monitoring Well	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-01	464368.78	1589789.76	10.75	8/29/2016	5.41	5.34
MW-02	464419.66	1592286.78	13.29	8/29/2016	5.41	7.88
MW-03	464322.49	1594277.21	14.06	8/29/2016	6.21	7.85
MW-04	464027.17	1591388.6	15.05	8/29/2016	6.93	8.12
MW-05	463987.97	1592784.03	14.13	8/29/2016	5.83	8.30
MW-06	463858.8	1591389.13	23.82	8/29/2016	13.51	10.31
MW-07	463856.65	1592774.97	21.42	8/29/2016	11.92	9.50
MW-08	461649.15	1590479.94	24.31	8/29/2016	14.38	9.93
MW-09	460663.62	1590695.95	15.37	8/29/2016	9.81	5.56
MW-10	461234.34	1592098.52	13.93	8/29/2016	6.06	7.87
MW-11	462157.18	1593298.86	16.51	8/29/2016	8.61	7.90
MW-12	462362	1589322.96	11.14	8/29/2016	9.37	1.77
MW-13	462676.94	1590589.33	26.54	8/29/2016	15.07	11.47
MW-14	460892.89	1590173.47	24.95	8/29/2016	20.37	4.58

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.
3. Depth to water measurements are in feet.

Table 4
Summary of Groundwater Elevations

Monitoring Well	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-01	464368.78	1589789.76	10.75	11/1/2016	5.47	5.28
MW-02	464419.66	1592286.78	13.29	11/1/2016	7.11	6.18
MW-03	464322.49	1594277.21	14.06	11/1/2016	8.46	5.60
MW-04	464027.17	1591388.6	15.05	11/1/2016	7.45	7.60
MW-05	463987.97	1592784.03	14.13	11/1/2016	6.59	7.54
MW-06	463858.8	1591389.13	23.82	11/1/2016	14.33	9.49
MW-07	463856.65	1592774.97	21.42	11/1/2016	13.55	7.87
MW-08	461649.15	1590479.94	24.31	11/1/2016	15.83	8.48
MW-09	460663.62	1590695.95	15.37	11/1/2016	11.71	3.66
MW-10	461234.34	1592098.52	13.93	11/1/2016	8.33	5.60
MW-11	462157.18	1593298.86	16.51	11/1/2016	9.55	6.96
MW-12	462362	1589322.96	11.14	11/1/2016	9.77	1.37
MW-13	462676.94	1590589.33	26.54	11/1/2016	16.16	10.38
MW-14	460892.89	1590173.47	24.95	11/1/2016	22.20	2.75

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.
3. Depth to water measurements are in feet.

Table 4
Summary of Groundwater Elevations

Monitoring Well	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-01	464368.78	1589789.76	10.75	1/4/2017	5.17	5.58
MW-02	464419.66	1592286.78	13.29	1/4/2017	4.37	8.92
MW-03	464322.49	1594277.21	14.06	1/4/2017	6.08	7.98
MW-04	464027.17	1591388.6	15.05	1/4/2017	6.19	8.86
MW-05	463987.97	1592784.03	14.13	1/4/2017	5.15	8.98
MW-06	463858.8	1591389.13	23.82	1/4/2017	13.33	10.49
MW-07	463856.65	1592774.97	21.42	1/4/2017	11.60	9.82
MW-08	461649.15	1590479.94	24.31	1/4/2017	14.33	9.98
MW-09	460663.62	1590695.95	15.37	1/4/2017	9.97	5.40
MW-10	461234.34	1592098.52	13.93	1/4/2017	6.02	7.91
MW-11	462157.18	1593298.86	16.51	1/4/2017	8.20	8.31
MW-12	462362	1589322.96	11.14	1/4/2017	9.74	1.40
MW-13	462676.94	1590589.33	26.54	1/4/2017	14.45	12.09
MW-14	460892.89	1590173.47	24.95	1/4/2017	21.13	3.82

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.
3. Depth to water measurements are in feet.

Table 4
Summary of Groundwater Elevations

Monitoring Well	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-01	464368.78	1589789.76	10.75	3/10/2017	5.22	5.53
MW-02	464419.66	1592286.78	13.29	3/10/2017	5.02	8.27
MW-03	464322.49	1594277.21	14.06	3/10/2017	5.92	8.14
MW-04	464027.17	1591388.6	15.05	3/10/2017	6.95	8.10
MW-05	463987.97	1592784.03	14.13	3/10/2017	5.89	8.24
MW-06	463858.8	1591389.13	23.82	3/10/2017	13.62	10.20
MW-07	463856.65	1592774.97	21.42	3/10/2017	11.96	9.46
MW-08	461649.15	1590479.94	24.31	3/10/2017	14.91	9.40
MW-09	460663.62	1590695.95	15.37	3/10/2017	10.52	4.85
MW-10	461234.34	1592098.52	13.93	3/10/2017	6.59	7.34
MW-11	462157.18	1593298.86	16.51	3/10/2017	9.12	7.39
MW-12	462362	1589322.96	11.14	3/10/2017	10.25	0.89
MW-13	462676.94	1590589.33	26.54	3/10/2017	15.26	11.28
MW-14	460892.89	1590173.47	24.95	3/10/2017	21.43	3.52

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.
3. Depth to water measurements are in feet.

Table 4
Summary of Groundwater Elevations

Monitoring Well	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-01	464368.78	1589789.76	10.75	5/11/2017	5.42	5.33
MW-02	464419.66	1592286.78	13.29	5/11/2017	5.89	7.40
MW-03	464322.49	1594277.21	14.06	5/11/2017	7.14	6.92
MW-04	464027.17	1591388.6	15.05	5/11/2017	7.29	7.76
MW-05	463987.97	1592784.03	14.13	5/11/2017	6.32	7.81
MW-06	463858.8	1591389.13	23.82	5/11/2017	14.97	8.85
MW-07	463856.65	1592774.97	21.42	5/11/2017	12.71	8.71
MW-08	461649.15	1590479.94	24.31	5/11/2017	15.54	8.77
MW-09	460663.62	1590695.95	15.37	5/11/2017	10.98	4.39
MW-10	461234.34	1592098.52	13.93	5/11/2017	6.68	7.25
MW-11	462157.18	1593298.86	16.51	5/11/2017	9.12	7.39
MW-12	462362	1589322.96	11.14	5/11/2017	10.17	0.97
MW-13	462676.94	1590589.33	26.54	5/11/2017	15.86	10.68
MW-14	460892.89	1590173.47	24.95	5/11/2017	21.87	3.08

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.
3. Depth to water measurements are in feet.

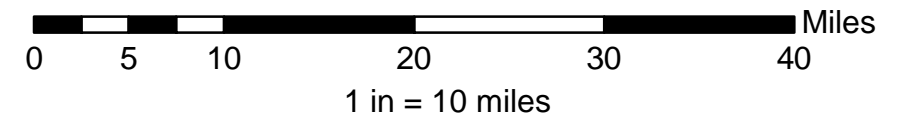
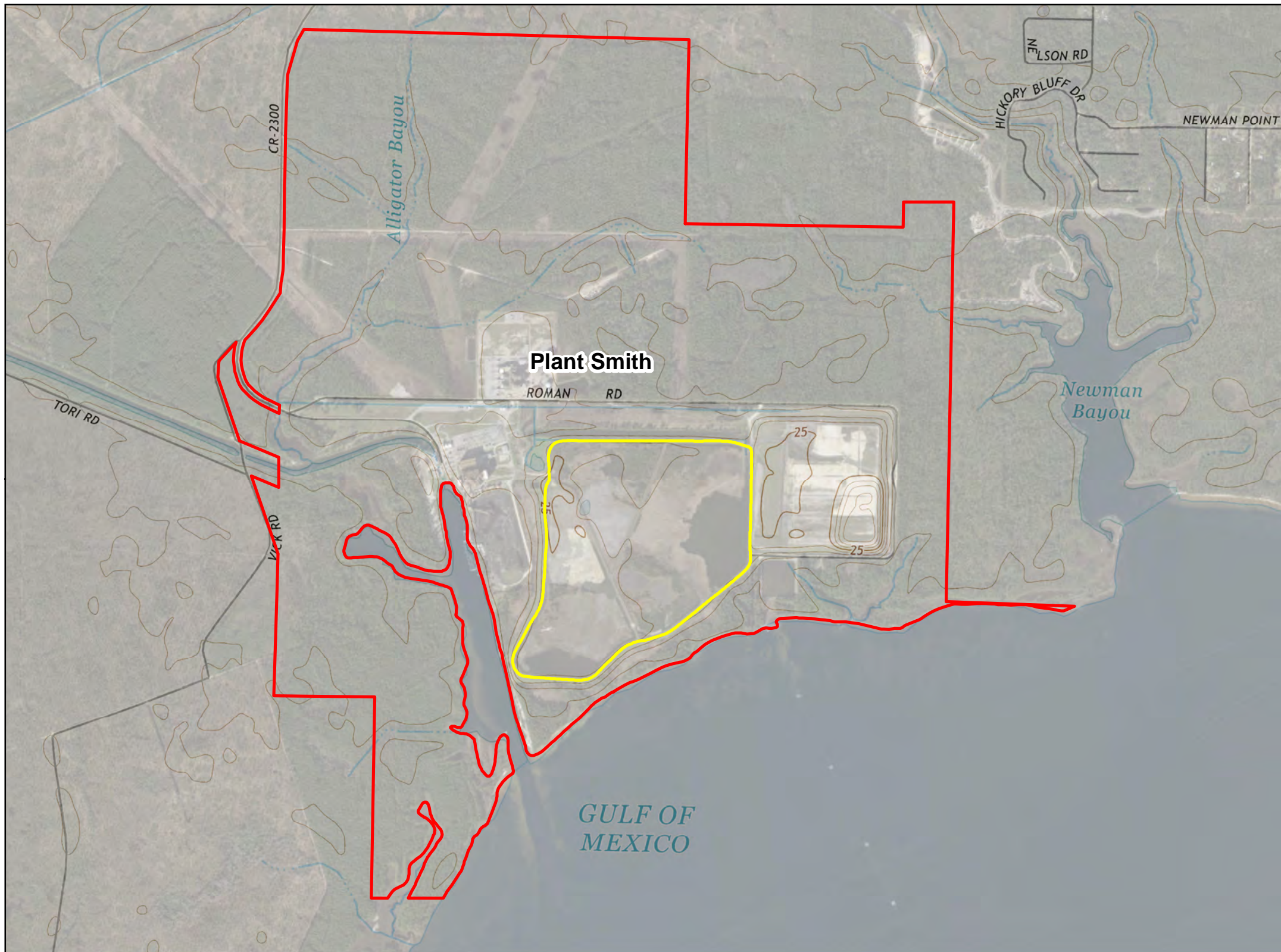
Table 4
Summary of Groundwater Elevations

Monitoring Well	Northing	Easting	Top of Casing Elevation	Date	Depth to Water	Groundwater Elevation
MW-01	464368.78	1589789.76	10.75	10/12/2017	5.45	5.30
MW-02	464419.66	1592286.78	13.29	10/12/2017	6.02	7.27
MW-03	464322.49	1594277.21	14.06	10/12/2017	7.11	6.95
MW-04	464027.17	1591388.6	15.05	10/12/2017	7.24	7.81
MW-05	463987.97	1592784.03	14.13	10/12/2017	6.30	7.83
MW-06	463858.8	1591389.13	23.82	10/12/2017	13.91	9.91
MW-07	463856.65	1592774.97	21.42	10/12/2017	12.28	9.14
MW-08	461649.15	1590479.94	24.31	10/12/2017	15.05	9.26
MW-09	460663.62	1590695.95	15.37	10/12/2017	10.47	4.90
MW-10	461234.34	1592098.52	13.93	10/12/2017	6.51	7.42
MW-11	462157.18	1593298.86	16.51	10/12/2017	9.47	7.04
MW-12	462362	1589322.96	11.14	10/12/2017	9.26	1.88
MW-13	462676.94	1590589.33	26.54	10/12/2017	15.38	11.16
MW-14	460892.89	1590173.47	24.95	10/12/2017	21.40	3.55

Notes:

1. Northing and easting are in feet relative to the State Plane Florida North Datum of 1983.
2. Elevations are in feet relative to the North American Vertical Datum on 1988.
3. Depth to water measurements are in feet.

FIGURES

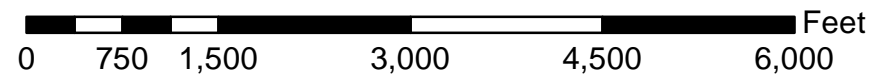


Legend

- Approximate Ash Pond Boundary
- Approximate Property Boundary

NOTES:
1. TOPOGRAPHIC CONTOUR INTERVAL IS 10 FEET.

REFERENCES:
1. USGS 7.5 MINUTE QUADRANGLE, SOUTHPORT, FL 2015.
2. PROPERTY BOUNDARY LINE MODIFIED FROM BAY COUNTY GIS DEPARTMENT.



1 inch = 1,500 feet

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FIGURE 1
SITE LOCATION MAP
PLANT SMITH, BAY COUNTY, FLORIDA

Southern Company Services
Earth Science and Environmental Engineering





FOR

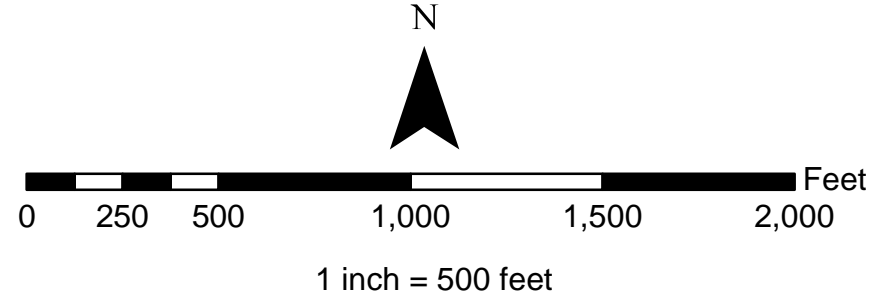
Gulf Power Company

Drawing Number: ES4045S1



Legend

-  Monitoring Well
-  Piezometer
-  Approximate Ash Pond Boundary
-  Approximate Property Boundary



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FIGURE 2
WELL LOCATION MAP
PLANT SMITH, BAY COUNTY, FLORIDA

Southern Company Services
Earth Science and Environmental Engineering

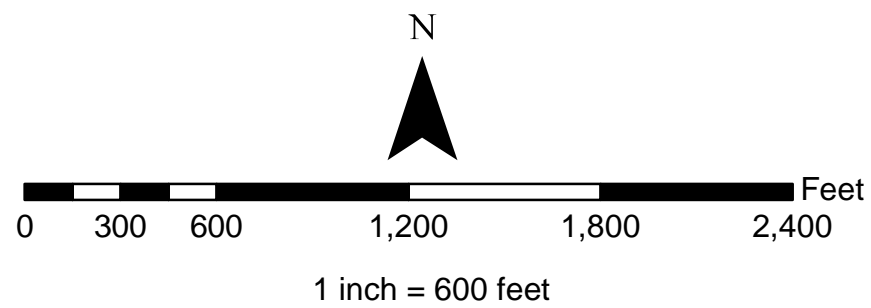
FOR

Gulf Power Company

Drawing Number: ES4045S2



Legend	
	Monitoring Well
	Piezometer
	POT_CHB_2017_10
	Approximate Ash Pond Boundary
	Approximate Property Boundary
	Estimated Groundwater Flow Direction



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Southern Company Services
Earth Science and Environmental Engineering

FOR

FIGURE 3
POTENTIOMETRIC SURFACE CONTOUR
MAP - OCTOBER 2017
PLANT SMITH, BAY COUNTY, FLORIDA

Gulf Power Company

Drawing Number: ES4045S3

APPENDIX A
LABORATORY ANALYTICAL AND
FIELD SAMPLING REPORTS

FIELD SAMPLING REPORTS
BACKGROUND SAMPLING EVENT
FEBRUARY 2016 - MAY 2017

Product Name: Low-Flow System

Date: 2016-02-22 13:06:35

Project Information:

Operator Name Shane
Company Name RDH Env.
Project Name Background-1
Site Name Plant smith
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 .25 in
Tubing Length 30 ft

Pump placement from TOC 21 ft

Well Information:

Well ID MW-02
Well diameter 2 in
Well Total Depth 26.4 ft
Screen Length 10 ft
Depth to Water 4.19 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.3795819 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 27.8 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:42:59	300.07	20.22	6.07	130.72	7.59	5.77	0.14	-32.00
Last 5	12:47:59	600.01	20.20	6.07	127.77	8.69	6.15	0.09	-33.12
Last 5	12:52:59	900.01	20.24	6.11	127.62	9.02	6.27	0.08	-34.23
Last 5	12:57:59	1200.01	20.31	6.11	127.92	10.60	6.33	0.07	-34.44
Last 5	13:02:59	1500.01	20.30	6.11	128.75	12.00	6.36	0.07	-34.45
Variance 0			0.04	0.04	-0.14			-0.02	-1.11
Variance 1			0.06	-0.00	0.29			-0.01	-0.21
Variance 2			-0.00	0.00	0.83			-0.00	-0.02

Notes

Temperature-72 F precipitation -none. Sampled@1308

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-22 14:07:33

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Background 1
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 30 ft

Pump placement from TOC 28.0 ft

Well Information:

Well ID MW-03
Well diameter 2 in
Well Total Depth 33.4 ft
Screen Length 10 ft
Depth to Water 5.61 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.18 in
Total Volume Pumped 56 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	13:41:23	7202.04	21.30	5.11	50.45	21.20	5.79	0.05	-17.08
Last 5	13:46:23	7502.04	21.24	5.11	50.40	25.10	5.80	0.06	-17.38
Last 5	13:51:23	7802.05	21.23	5.12	50.31	23.90	5.80	0.05	-17.65
Last 5	13:56:23	8102.05	21.19	5.11	49.91	20.00	5.81	0.07	-17.75
Last 5	14:01:23	8402.05	21.17	5.09	49.84	19.20	5.81	0.07	-18.02
Variance 0			-0.01	0.02	-0.09			-0.00	-0.28
Variance 1			-0.04	-0.02	-0.40			0.02	-0.09
Variance 2			-0.02	-0.02	-0.07			0.00	-0.27

Notes

Sample time 1403. Weather is cloudy and 69.

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-23 08:07:22

Project Information:

Operator Name Shane
Company Name RDH Env.
Project Name Background-1
Site Name Plant smith
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 .25 in
Tubing Length 40 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 39.6 ft
Screen Length 10 ft
Depth to Water 14.37 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4761093 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 44.9 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	07:41:54	1200.01	23.07	5.05	11889.14	2.51	17.36	0.13	-108.75
Last 5	07:46:54	1500.01	23.09	5.08	11934.99	2.70	17.61	0.12	-108.56
Last 5	07:51:54	1800.01	23.10	5.08	11998.13	2.42	17.84	0.11	-106.00
Last 5	07:56:54	2100.01	23.14	5.06	12046.39	2.17	17.98	0.11	-103.08
Last 5	08:01:54	2400.01	23.12	5.03	12093.32	1.96	18.11	0.11	-100.84
Variance 0			0.02	-0.00	63.15			-0.00	2.56
Variance 1			0.04	-0.02	48.26			-0.00	2.92
Variance 2			-0.02	-0.03	46.93			-0.00	2.24

Notes

Temperature-67. Precipitation-none. Smpled@0808

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-23 08:49:31

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Background 1
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 40 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-07
Well diameter 2 in
Well Total Depth 39.7 ft
Screen Length 10 ft
Depth to Water 11.05 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.7 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	08:25:35	2100.04	22.17	6.15	6163.35	6.36	11.75	0.07	-194.98
Last 5	08:30:35	2400.04	22.21	6.24	6209.58	5.62	11.75	0.07	-199.48
Last 5	08:35:35	2700.04	22.25	6.28	6226.33	6.44	11.76	0.06	-202.16
Last 5	08:40:35	3000.04	22.26	6.31	6236.50	5.28	11.76	0.06	-204.01
Last 5	08:45:35	3300.04	22.26	6.32	6233.86	5.44	11.76	0.06	-205.01
Variance 0			0.04	0.04	16.75			-0.00	-2.68
Variance 1			0.01	0.02	10.16			-0.00	-1.85
Variance 2			-0.00	0.02	-2.64			-0.00	-1.00

Notes

Sample time 0848

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-23 11:13:19

Project Information:

Operator Name Shane
Company Name RDH Env.
Project Name Background-1
Site Name Plant smith
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 .25 in
Tubing Length 44 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 43.1 ft
Screen Length 10 ft
Depth to Water 13.06 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.5147202 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 97.2 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	10:46:20	2100.01	24.44	4.85	11248.99	2.57	20.70	0.12	-76.78
Last 5	10:51:20	2400.01	24.28	4.93	11276.83	2.85	20.92	0.14	-80.43
Last 5	10:56:20	2700.01	24.15	4.99	11312.23	2.06	21.01	0.15	-82.59
Last 5	11:01:20	3000.02	24.06	5.04	11317.28	3.33	21.11	0.14	-85.76
Last 5	11:06:21	3301.02	23.97	5.06	11310.83	2.43	21.16	0.17	-87.33
Variance 0			-0.13	0.06	35.40			0.01	-2.17
Variance 1			-0.09	0.05	5.05			-0.00	-3.17
Variance 2			-0.09	0.02	-6.45			0.02	-1.57

Notes

Temperature-78 precipitation-none. Sampled@1110 FB-01@1125

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-23 14:09:03

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Background-1
Site Name Smith Plant
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 31 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-09
Well diameter 2 in
Well Total Depth 32.5 ft
Screen Length 10 ft
Depth to Water 9.09 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2283661 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 14.04 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	13:43:33	300.07	24.54	4.87	9614.59	43.20	10.21	0.14	-89.69
Last 5	13:53:33	900.02	24.23	4.94	9607.96	8.14	10.26	0.10	-95.34
Last 5	13:58:33	1200.05	24.14	4.89	9649.03	3.63	10.26	0.09	-90.65
Last 5	14:03:33	1500.05	24.07	4.85	9669.83	3.23	10.26	0.09	-88.25
Last 5									
Variance 0			-0.31	0.06	-6.63			-0.04	-5.65
Variance 1			-0.09	-0.05	41.06			-0.01	4.69
Variance 2			-0.07	-0.03	20.80			-0.00	2.40

Notes

EB-02@1258. FB-02@1312

Sample time 1405. EB-02 sample time 1258. FB-02 sample time 1312. Weather is partly cloudy 74.

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-23 12:03:50

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Background 1
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 33 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 5.76 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.237293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17.28 in
Total Volume Pumped 38 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	11:36:06	4500.00	24.05	5.21	10320.11	10.90	7.14	0.07	-121.27
Last 5	11:41:06	4800.00	23.83	5.21	10344.67	7.72	7.14	0.07	-121.34
Last 5	11:46:06	5100.00	23.83	5.19	10351.57	13.20	7.16	0.07	-119.35
Last 5	11:51:06	5400.01	23.74	5.20	10363.76	6.84	7.19	0.07	-119.19
Last 5	11:56:06	5700.00	23.78	5.20	10360.71	7.35	7.20	0.06	-119.40
Variance 0			-0.00	-0.02	6.89			-0.00	1.99
Variance 1			-0.09	0.01	12.19			-0.00	0.16
Variance 2			0.04	0.00	-3.05			-0.00	-0.21

Notes

Sample time 1158. Dup-2 fake time 1058. Weather is partly cloudy 74.

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-22 15:59:11

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Background 1
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 383005
Turbidity Make/Model 2100Q

Pump Information:

Pump Model/Type peristaltic
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 33 ft

Pump placement from TOC 28.0 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33.4 ft
Screen Length 10 ft
Depth to Water 8.63 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.237293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 36.84 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	15:32:55	1200.03	22.68	6.36	9037.43	4.36	11.34	0.10	-253.08
Last 5	15:37:55	1500.03	22.71	6.35	9117.29	5.96	11.47	0.08	-254.68
Last 5	15:42:55	1800.03	22.70	6.34	9142.91	4.07	11.61	0.10	-255.42
Last 5	15:47:55	2100.03	22.70	6.34	9176.50	6.67	11.66	0.09	-255.83
Last 5	15:52:55	2400.03	22.71	6.33	9186.32	4.29	11.70	0.08	-255.74
Variance 0			-0.00	-0.01	25.63			0.01	-0.75
Variance 1			0.00	-0.00	33.58			-0.00	-0.40
Variance 2			0.00	-0.01	9.83			-0.02	0.08

Notes

Sample time 1556. Dup.-01 sample time 1456. Weather is cloudy and 68.

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-22 15:51:13

Project Information:

Operator Name Shane
Company Name RDH Env.
Project Name Background-1
Site Name Plant smith
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 .25 in
Tubing Length 33 ft

Pump placement from TOC 27 ft

Well Information:

Well ID MW-12
Well diameter 2 in
Well Total Depth 32.1 ft
Screen Length 10 ft
Depth to Water 9.92 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.4085401 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 88.3 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	15:20:39	3001.01	22.44	6.25	869.94	6.30	16.50	0.08	-19.36
Last 5	15:25:39	3301.01	22.44	6.22	835.71	8.49	16.76	0.08	-17.94
Last 5	15:30:39	3601.01	22.44	6.20	806.66	12.70	17.00	0.07	-17.81
Last 5	15:35:39	3901.01	22.42	6.18	811.53	16.70	17.17	0.08	-16.81
Last 5	15:40:39	4201.01	22.44	6.19	799.27	19.90	17.28	0.08	-17.02
Variance 0			0.00	-0.02	-29.06			-0.01	0.14
Variance 1			-0.03	-0.02	4.87			0.00	0.99
Variance 2			0.02	0.00	-12.26			0.00	-0.21

Notes

Temperature-70 precipitation-none. Sampled@1550

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-23 12:52:22

Project Information:

Operator Name Shane
Company Name RDH Env.
Project Name Background-1
Site Name Plant smith
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 .25 in
Tubing Length 42 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43.3 ft
Screen Length 10 ft
Depth to Water 14.22 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4954147 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 62.9 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	12:29:15	2400.01	24.16	7.53	14831.39	4.20	19.30	0.05	-263.18
Last 5	12:34:15	2700.01	24.41	7.51	14751.33	4.13	19.33	0.04	-262.95
Last 5	12:39:15	3000.01	24.04	7.50	14811.93	3.12	19.39	0.05	-262.54
Last 5	12:44:15	3300.01	23.96	7.49	14862.43	2.05	19.41	0.06	-262.48
Last 5	12:49:15	3600.01	23.90	7.47	14945.08	2.34	19.46	0.05	-261.86
Variance 0			-0.37	-0.01	60.60			0.01	0.41
Variance 1			-0.08	-0.01	50.50			0.01	0.06
Variance 2			-0.07	-0.02	82.66			-0.01	0.61

Notes

Temperature-77 precipitation-none. Sampled@1255

Grab Samples

Product Name: Low-Flow System

Date: 2016-02-23 09:30:58

Project Information:

Operator Name Shane
Company Name RDH Env.
Project Name Background-1
Site Name Plant smith
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 .25 in
Tubing Length 40 ft

Pump placement from TOC 36 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41.04 ft
Screen Length 10 ft
Depth to Water 19.36 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.4761093 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11.3 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	09:01:39	300.01	23.43	6.92	8385.18	4.02	20.21	0.21	-203.88
Last 5	09:06:39	600.01	23.43	6.92	8392.70	3.64	20.28	0.18	-205.49
Last 5	09:11:39	900.01	23.46	6.90	8425.43	2.53	20.29	0.13	-205.34
Last 5	09:16:40	1201.01	23.43	6.90	8452.41	3.59	20.30	0.09	-204.41
Last 5									
Variance 0			0.00	0.00	7.52			-0.04	-1.61
Variance 1			0.03	-0.01	32.73			-0.04	0.15
Variance 2			-0.03	-0.00	26.98			-0.04	0.93

Notes

Temperature-72. Precipitation-none. Sample@0918 EB-01@0935

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-25 15:26:06

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 30 ft

Pump placement from TOC 21 ft

Well Information:

Well ID MW-02
Well diameter 2 in
Well Total Depth 26 ft
Screen Length 10 ft
Depth to Water 3.55 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2239027 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 22.9 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	14:53:15	1500.01	21.09	5.60	119.98	3.48	5.40	0.05	6.18
Last 5	14:58:27	1812.01	20.99	5.56	118.04	3.52	5.41	0.05	3.40
Last 5	15:03:27	2112.01	21.10	5.65	125.66	3.77	5.43	0.05	-2.12
Last 5	15:13:27	2712.01	21.03	5.59	122.85	4.21	5.45	0.04	-7.77
Last 5	15:18:27	3012.01	21.00	5.65	125.90	4.53	5.46	0.04	-10.51
Variance 0			0.11	0.09	7.62			-0.00	-5.52
Variance 1			-0.07	-0.06	-2.82			-0.00	-5.65
Variance 2			-0.04	0.06	3.05			-0.00	-2.74

Notes

Sampled@1525 dup-01@1325 temperature 80 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-25 16:43:45

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-03
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 5.51 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2462198 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%	+/- 5		+/- 0.2	+/- 10
Last 5	16:20:44	600.01	21.68	4.98	48.63	12.90	5.61	0.09	21.26
Last 5	16:25:44	900.01	22.11	5.00	48.61	14.10	5.61	0.10	22.88
Last 5	16:30:44	1200.01	21.90	5.00	48.76	17.00	5.61	0.09	25.41
Last 5	16:35:44	1500.01	21.82	5.00	48.69	18.40	5.60	0.09	27.21
Last 5	16:40:44	1800.01	21.72	5.00	49.11	19.70	5.60	0.08	29.30
Variance 0			-0.20	0.00	0.15			-0.01	2.53
Variance 1			-0.08	0.00	-0.07			-0.00	1.79
Variance 2			-0.10	0.00	0.42			-0.00	2.09

Notes

Sampled@1645 precipitation none temperature 82 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-26 10:38:53

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 45 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 13.35 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 44.6 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%	+/- 5		+/- 0.2	+/- 10
Last 5	10:13:27	1800.01	24.12	4.69	12138.13	0.62	17.43	0.13	31.92
Last 5	10:18:28	2101.01	24.08	4.69	12173.49	0.56	17.51	0.13	27.98
Last 5	10:23:35	2408.01	23.86	4.67	12361.48	0.51	17.65	0.12	24.20
Last 5	10:28:36	2709.01	23.87	4.67	12404.60	0.63	17.73	0.10	20.77
Last 5	10:33:36	3009.01	23.86	4.68	12428.39	0.66	17.80	0.10	17.70
Variance 0			-0.22	-0.02	187.99			-0.01	-3.79
Variance 1			0.01	0.00	43.12			-0.02	-3.43
Variance 2			-0.01	0.01	23.79			0.00	-3.07

Notes

Sampled@1045 temperature 74 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-26 12:22:54

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 45 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-07
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 11.31 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8.5 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%	+/- 5		+/- 0.2	+/- 10
Last 5	11:58:56	1800.01	22.35	6.18	5897.74	5.99	12.16	0.08	-111.86
Last 5	12:03:56	2100.01	22.35	6.25	5936.04	6.34	12.16	0.07	-118.54
Last 5	12:08:56	2400.01	22.35	6.31	5939.77	6.10	12.16	0.06	-124.47
Last 5	12:13:56	2700.01	22.40	6.32	5946.57	5.43	12.16	0.06	-129.40
Last 5	12:18:56	3000.01	22.48	6.36	5954.38	5.97	12.16	0.05	-132.98
Variance 0			0.00	0.06	3.73			-0.01	-5.92
Variance 1			0.05	0.01	6.80			-0.00	-4.93
Variance 2			0.08	0.04	7.81			-0.01	-3.58

Notes

Sampled@1225 EB-01@1240. Temperature 82 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-27 10:20:08

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 60 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 14.62 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 62.7 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%	+/- 5		+/- 0.2	+/- 10
Last 5	09:49:56	1500.01	24.02	4.26	11990.93	0.73	20.34	0.11	-42.02
Last 5	09:54:56	1800.01	24.27	4.42	11957.78	0.57	20.55	0.11	-59.94
Last 5	10:05:00	2404.01	24.25	4.54	11945.69	0.61	20.69	0.10	-75.61
Last 5	10:10:00	2704.01	24.33	4.62	11912.60	0.56	20.73	0.10	-82.94
Last 5	10:15:00	3004.01	24.42	4.62	11950.58	0.58	20.89	0.10	-84.94
Variance 0			-0.02	0.11	-12.09			-0.00	-15.67
Variance 1			0.08	0.08	-33.09			-0.00	-7.33
Variance 2			0.09	0.00	37.99			-0.00	-1.99

Notes

Sampled@1025 temperature 81 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-27 12:37:41

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 50 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-09
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 9.18 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15.1 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	12:14:45	4203.01	25.95	5.11	9400.65	1.20	10.69	0.07	-86.78
Last 5	12:19:45	4503.01	25.93	5.13	9440.49	1.23	10.69	0.07	-90.43
Last 5	12:24:50	4808.01	26.25	5.14	9418.46	1.01	10.69	0.07	-92.10
Last 5	12:29:51	5109.01	26.15	5.16	9377.12	1.43	10.69	0.07	-93.59
Last 5	12:34:51	5409.01	26.25	5.19	9378.42	2.88	10.69	0.07	-95.15
Variance 0			0.32	0.01	-22.03			0.00	-1.67
Variance 1			-0.10	0.02	-41.34			-0.01	-1.49
Variance 2			0.10	0.03	1.30			0.00	-1.56

Notes

Sampled@1240 precipitation none temperature 86 degrees

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-26 15:34:50

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 45 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 5.67 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16.4 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	15:13:55	300.05	24.15	5.24	10163.69	22.40	7.12	0.15	-101.16
Last 5	15:18:55	600.01	24.22	5.26	10234.20	17.60	7.18	0.12	-121.39
Last 5	15:23:55	900.01	24.31	5.26	10227.83	10.30	7.24	0.10	-129.59
Last 5	15:28:55	1200.01	24.24	5.24	10292.11	8.98	7.31	0.10	-121.03
Last 5									
Variance 0			0.07	0.02	70.51			-0.03	-20.23
Variance 1			0.09	0.00	-6.37			-0.02	-8.20
Variance 2			-0.07	-0.02	64.28			-0.01	8.56

Notes

Sampled@1540 temperature 86 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-26 14:22:10

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 45 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 8.94 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 32.1 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%	+/- 5		+/- 0.2	+/- 10
Last 5	13:56:31	1800.01	23.93	6.39	9141.42	1.34	11.95	0.07	-292.22
Last 5	14:01:31	2100.01	24.18	6.34	9195.81	2.67	11.99	0.08	-299.57
Last 5	14:06:31	2400.01	24.47	6.30	9252.43	4.91	12.04	0.08	-303.55
Last 5	14:11:31	2700.01	24.42	6.29	9261.67	7.27	12.09	0.08	-305.88
Last 5	14:16:31	3000.01	24.42	6.27	9301.82	8.55	12.15	0.07	-307.78
Variance 0			0.29	-0.04	56.62			0.00	-3.98
Variance 1			-0.04	-0.02	9.25			0.00	-2.33
Variance 2			0.00	-0.02	40.14			-0.00	-1.90

Notes

Sampled@1425 dup-02@1325 temperature 85 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-26 08:42:04

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 35 ft

Pump placement from TOC 27 ft

Well Information:

Well ID MW-12
Well diameter 2 in
Well Total Depth 32 ft
Screen Length 10 ft
Depth to Water 9.51 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 39.9 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	08:16:00	1803.01	22.09	6.02	983.74	2.44	12.79	0.11	6.50
Last 5	08:21:00	2103.01	22.30	6.01	973.91	2.31	12.98	0.11	6.27
Last 5	08:26:00	2403.01	22.27	6.00	956.74	2.25	13.23	0.10	6.14
Last 5	08:31:04	2707.01	22.15	6.00	958.58	2.65	13.36	0.10	5.95
Last 5	08:36:04	3007.01	22.19	5.99	942.20	3.12	13.50	0.11	5.90
Variance 0			-0.03	-0.01	-17.17			-0.02	-0.14
Variance 1			-0.12	0.00	1.84			-0.00	-0.19
Variance 2			0.04	-0.01	-16.38			0.01	-0.05

Notes

Sampled@0845 FB-01@0753 temperature 69 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-27 08:48:16

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 60 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 14.56 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 43.9 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	08:23:47	3000.05	23.46	7.09	15775.59	0.49	18.95	0.08	-301.15
Last 5	08:28:47	3300.01	23.49	7.10	15707.16	0.50	18.95	0.09	-311.19
Last 5	08:33:48	3601.01	23.70	7.09	15718.83	0.61	18.95	0.08	-318.60
Last 5	08:38:48	3901.01	23.52	7.08	15900.44	0.63	18.95	0.08	-323.73
Last 5	08:43:48	4201.01	23.52	7.08	15630.01	0.78	18.95	0.08	-328.30
Variance 0			0.21	-0.00	11.67			-0.01	-7.41
Variance 1			-0.18	-0.01	181.61			0.00	-5.14
Variance 2			-0.00	-0.00	-270.43			-0.00	-4.56

Notes

Sampled@0850 temperature 74 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-04-27 15:08:01

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 2
Site Name Plant smith
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 50 ft

Pump placement from TOC 36 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41 ft
Screen Length 10 ft
Depth to Water 19.43 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.3 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	14:43:37	600.01	22.85	6.62	8442.53	6.39	20.65	0.09	-182.49
Last 5	14:48:37	900.01	22.87	6.61	8510.82	7.12	20.66	0.08	-193.96
Last 5	14:53:37	1200.01	22.76	6.62	8523.11	7.97	20.66	0.07	-200.25
Last 5	14:58:37	1500.01	22.85	6.62	8547.41	8.32	20.66	0.07	-204.60
Last 5	15:03:37	1800.01	22.74	6.62	8498.91	5.09	20.66	0.07	-205.62
Variance 0			-0.11	0.00	12.29			-0.01	-6.29
Variance 1			0.09	0.00	24.30			-0.01	-4.35
Variance 2			-0.11	0.00	-48.49			-0.00	-1.02

Notes

Sampled@1510 dup-03@1410 EB-02@1530 FB-02@1440 temperature 83 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-27 11:37:55

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background-3
Site Name Plant Smith
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 28 ft

Pump placement from TOC 21 ft

Well Information:

Well ID MW-2
Well diameter 2 in
Well Total Depth 26 ft
Screen Length 10 ft
Depth to Water 4.89 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.92 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	11:19:34	300.06	26.42	5.30	101.98	1.49	5.66	0.18	-56.88
Last 5	11:24:34	600.02	26.24	5.27	105.72	1.64	5.75	0.15	-58.79
Last 5	11:29:34	900.02	26.15	5.31	107.28	1.47	5.79	0.12	-60.19
Last 5	11:34:34	1200.02	26.14	5.35	109.71	1.35	5.81	0.11	-62.46
Last 5									
Variance 0			-0.18	-0.03	3.74			-0.02	-1.91
Variance 1			-0.09	0.03	1.57			-0.03	-1.40
Variance 2			-0.00	0.04	2.42			-0.01	-2.27

Notes

Sample@1136, DUP-01@1036, Sunny 90

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-27 13:10:41

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background-3
Site Name Plant Smith
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-3
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 5.95 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.05 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%	+/- 10		+/- 0.2	+/- 10
Last 5	12:49:27	900.02	24.39	4.95	52.38	6.88	6.00	0.07	25.77
Last 5	12:54:27	1200.02	24.51	4.94	52.26	7.15	6.00	0.07	24.41
Last 5	12:59:27	1500.02	24.26	4.94	52.24	10.50	6.00	0.06	23.48
Last 5	13:04:27	1800.03	24.42	4.93	52.45	11.70	6.00	0.06	22.72
Last 5	13:09:27	2100.02	24.42	4.94	52.50	12.50	6.00	0.06	22.04
Variance 0			-0.25	0.00	-0.02			-0.01	-0.93
Variance 1			0.16	-0.02	0.21			-0.00	-0.76
Variance 2			0.00	0.01	0.04			-0.00	-0.68

Notes

Sample@1310 Sunny 90

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-28 09:32:19

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 3
Site Name Plant smith
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 45 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 13.71 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 52.5 in
Total Volume Pumped 36 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	09:06:31	4201.01	23.52	4.83	12239.15	0.74	18.88	0.08	-3.16
Last 5	09:11:31	4501.01	23.55	4.81	12262.48	0.71	18.89	0.08	-8.84
Last 5	09:16:32	4802.01	23.61	4.82	12265.95	0.52	18.91	0.08	-14.34
Last 5	09:21:32	5102.01	23.63	4.81	12293.25	0.51	18.93	0.08	-19.16
Last 5	09:26:32	5402.01	23.66	4.82	12304.83	0.43	18.96	0.08	-23.52
Variance 0			0.06	0.01	3.47			0.00	-5.50
Variance 1			0.02	-0.01	27.30			-0.00	-4.82
Variance 2			0.02	0.01	11.58			-0.00	-4.36

Notes

Sampled@0935. Temperature 80 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-28 07:42:23

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background-3
Site Name Plant Smith
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-7
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 11.97 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.64 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	07:27:22	300.07	21.83	6.11	6402.51	2.97	12.54	0.15	-158.17
Last 5	07:32:22	600.03	21.82	6.10	6427.68	3.28	12.60	0.12	-155.16
Last 5	07:37:21	900.02	21.93	6.09	6443.31	2.67	12.61	0.11	-153.43
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.00	-0.01	25.18			-0.03	3.01
Variance 2			0.10	-0.00	15.62			-0.02	1.73

Notes

Same@0741,DUP -02@0641, Sunny 79

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-28 10:55:18

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background-3
Site Name Plant Smith
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-8
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 15 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 44 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	10:32:25	1500.02	25.80	3.99	12254.38	1.18	18.69	0.11	-14.30
Last 5	10:37:27	1802.03	26.05	3.94	12145.53	1.23	18.76	0.11	-13.22
Last 5	10:42:27	2102.03	26.26	3.91	12180.12	1.26	18.82	0.10	-14.04
Last 5	10:47:27	2402.02	26.32	3.87	12147.10	1.41	18.84	0.11	-12.52
Last 5	10:52:27	2702.02	26.25	3.85	12202.73	1.52	18.86	0.11	-12.61
Variance 0			0.21	-0.03	34.58			-0.01	-0.81
Variance 1			0.06	-0.04	-33.01			0.01	1.52
Variance 2			-0.07	-0.02	55.62			-0.00	-0.09

Notes

Sample@1054, Field blank-01@1115

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-28 12:43:14

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background-3
Site Name Plant Smith
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-9
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 9.77 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13 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	12:21:09	1500.02	29.46	5.14	10131.79	4.88	10.86	0.14	-94.29
Last 5	12:26:09	1800.03	28.59	5.24	10176.83	4.76	10.88	0.14	-97.47
Last 5	12:31:09	2100.02	29.20	5.26	10157.71	4.89	10.89	0.14	-101.07
Last 5	12:36:09	2400.02	29.32	5.23	10187.72	4.97	10.89	0.13	-99.42
Last 5	12:41:09	2700.02	29.75	5.29	10146.46	5.00	10.89	0.12	-103.85
Variance 0			0.61	0.02	-19.12			0.00	-3.60
Variance 1			0.12	-0.03	30.01			-0.01	1.65
Variance 2			0.43	0.06	-41.26			-0.01	-4.42

Notes

Sample@1242, Sunny 95

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-28 13:18:16

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 3
Site Name Plant smith
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 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 6.70 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3801225 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 14.1 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond µS/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:35:25	300.01	27.43	5.27	10305.69	9.95	7.84	0.17	-26.61
Last 5	12:40:25	600.01	27.10	5.27	10349.37	8.37	7.97	0.13	-29.58
Last 5	12:45:25	900.01	26.91	5.26	10302.01	6.14	8.07	0.11	-31.95
Last 5	12:50:25	1200.01	27.05	5.25	10354.27	4.41	8.11	0.11	-34.71
Last 5									
Variance 0			-0.33	0.00	43.68			-0.04	-2.98
Variance 1			-0.19	-0.01	-47.36			-0.02	-2.37
Variance 2			0.13	-0.02	52.26			-0.01	-2.76

Notes

Sampled@1255 temperature 89 degrees precipitation none EB-01@1325

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-28 13:57:02

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background-3
Site Name Plant Smith
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 8.85 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 24 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	13:25:52	300.02	27.34	7.18	9713.33	3.31	10.21	0.24	-233.82
Last 5	13:30:52	600.02	27.15	6.96	9733.02	2.34	10.65	0.15	-233.93
Last 5	13:35:52	900.02	27.04	6.82	9715.87	0.92	10.75	0.14	-233.82
Last 5	13:40:52	1200.03	26.99	6.78	9666.86	0.70	10.81	0.14	-233.26
Last 5	13:45:52	1500.02	26.90	6.76	9661.79	0.76	10.85	0.12	-233.61
Variance 0			-0.12	-0.13	-17.16			-0.01	0.11
Variance 1			-0.05	-0.04	-49.01			0.00	0.56
Variance 2			-0.09	-0.02	-5.07			-0.03	-0.34

Notes

Sample@1348, field blank-02@1405, EQ blank-02@1350. Sunny 96

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-27 15:27:04

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background-3
Site Name Plant Smith
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 34 ft

Pump placement from TOC 27 ft

Well Information:

Well ID MW-12
Well diameter 2 in
Well Total Depth 32 ft
Screen Length 10 ft
Depth to Water 9.75 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2417564 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 39 in
Total Volume Pumped 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	15:03:22	1500.02	28.17	6.08	1033.82	1.04	12.70	0.11	-29.55
Last 5	15:08:22	1800.02	27.90	6.07	1034.93	1.32	12.89	0.14	-28.87
Last 5	15:13:22	2100.02	27.58	6.07	1008.78	1.24	12.95	0.14	-27.07
Last 5	15:18:22	2400.02	27.66	6.05	999.98	1.29	13.04	0.14	-26.89
Last 5	15:23:22	2700.02	27.38	6.04	991.03	1.32	13.09	0.15	-26.69
Variance 0			-0.32	-0.00	-26.14			-0.00	1.80
Variance 1			0.08	-0.02	-8.80			0.01	0.19
Variance 2			-0.27	-0.01	-8.95			0.00	0.20

Notes

Sample@1525 Sunny 95

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-28 09:27:42

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background-3
Site Name Plant Smith
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 15.38 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 33 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%	+/- 10		+/- 0.2	+/- 10
Last 5	09:02:51	900.02	24.33	7.18	16976.72	0.81	18.18	0.75	-231.35
Last 5	09:07:51	1200.03	24.34	7.17	17061.71	0.45	18.24	0.52	-238.64
Last 5	09:12:51	1500.02	24.51	7.14	17178.54	0.66	18.28	0.34	-244.76
Last 5	09:17:51	1800.02	24.60	7.15	17232.64	0.74	18.31	0.24	-249.76
Last 5	09:22:51	2100.02	24.68	7.15	17223.26	0.64	18.33	0.17	-254.63
Variance 0			0.17	-0.03	116.83			-0.18	-6.13
Variance 1			0.09	0.01	54.10			-0.11	-5.00
Variance 2			0.08	0.01	-9.38			-0.06	-4.88

Notes

Sample@0926, Sunny 85

Grab Samples

Product Name: Low-Flow System

Date: 2016-06-28 11:18:23

Project Information:

Operator Name Shane Bragg
Company Name RDH Environmental
Project Name Background 3
Site Name Plant smith
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 50 ft

Pump placement from TOC 36 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41 ft
Screen Length 10 ft
Depth to Water 20.87 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.3131711 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.5 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	10:54:31	2405.01	23.52	6.68	8437.49	2.66	22.11	0.06	-163.86
Last 5	10:59:31	2705.01	23.44	6.69	8381.78	2.43	22.11	0.06	-171.44
Last 5	11:04:31	3005.01	23.54	6.69	8445.37	2.12	22.11	0.05	-177.88
Last 5	11:09:36	3310.02	23.62	6.68	8487.34	2.07	22.12	0.05	-183.23
Last 5	11:14:38	3612.01	23.55	6.69	8484.27	1.53	22.12	0.05	-186.78
Variance 0			0.10	0.00	63.59			-0.00	-6.44
Variance 1			0.08	-0.00	41.97			-0.00	-5.35
Variance 2			-0.07	0.00	-3.07			0.00	-3.55

Notes

Sampled@1120 temperature 86 degrees precipitation none

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-29 10:02:14

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background 4
Site Name Plant Smith Background 4
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 27 ft

Pump placement from TOC 21 ft

Well Information:

Well ID MW-02
Well diameter 2 in
Well Total Depth 26 ft
Screen Length 10 ft
Depth to Water 5.41 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2105124 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 18 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	09:42:45	300.07	24.92	7.00	402.05	6.14	6.60	0.11	-135.76
Last 5	09:47:45	600.02	24.72	7.02	441.17	3.90	6.79	0.08	-142.93
Last 5	09:52:45	900.02	24.68	7.05	456.11	3.45	6.87	0.07	-144.02
Last 5	09:57:45	1200.02	24.69	7.06	463.44	3.33	6.91	0.06	-142.40
Last 5									
Variance 0			-0.20	0.02	39.11			-0.03	-7.17
Variance 1			-0.04	0.04	14.94			-0.01	-1.09
Variance 2			0.01	0.00	7.33			-0.01	1.62

Notes

Sample@1001 Sunny 84

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-29 13:18:13

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background 4
Site Name Plant Smith Background 4
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-03
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 6.21 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.1 in
Total Volume Pumped 66 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	12:57:07	8702.02	23.70	5.14	55.64	23.90	6.31	0.04	67.66
Last 5	13:02:07	9002.02	23.56	5.14	55.69	22.50	6.31	0.03	66.74
Last 5	13:07:07	9302.02	23.52	5.13	55.86	22.10	6.31	0.04	66.55
Last 5	13:12:07	9602.02	23.63	5.17	55.91	21.50	6.31	0.03	64.10
Last 5	13:17:07	9902.02	23.62	5.17	55.49	19.80	6.31	0.05	63.72
Variance 0			-0.05	-0.01	0.17			0.01	-0.19
Variance 1			0.12	0.04	0.05			-0.01	-2.45
Variance 2			-0.01	-0.00	-0.42			0.01	-0.38

Notes

Sample@1317, Sunny 90

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-29 15:56:37

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background 4
Site Name Plant Smith Background 4
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 13.51 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 30 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	15:38:32	300.02	24.01	6.05	10659.55	3.99	15.56	0.11	-154.05
Last 5	15:43:32	600.02	24.08	5.99	10682.43	3.85	15.96	0.11	-149.77
Last 5	15:48:32	900.02	24.24	5.95	10678.62	3.71	16.08	0.10	-146.54
Last 5	15:53:32	1200.02	24.08	5.94	10643.86	3.89	16.15	0.10	-143.63
Last 5									
Variance 0			0.07	-0.07	22.88			0.00	4.28
Variance 1			0.16	-0.04	-3.81			-0.02	3.23
Variance 2			-0.16	-0.01	-34.75			-0.00	2.91

Notes

Sample@1555, EQBlank-01@1405, Sunny 92

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-29 15:13:01

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background 4
Site Name Plant Smith Background 4
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-07
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 11.92 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.54 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%	+/- 10		+/- 0.2	+/- 10
Last 5	14:48:08	3000.02	23.22	6.24	6937.04	7.34	12.46	0.09	-253.74
Last 5	14:53:08	3300.02	23.24	6.25	6968.62	6.27	12.46	0.11	-264.57
Last 5	14:58:08	3600.02	23.12	6.26	6936.43	5.61	12.46	0.08	-276.29
Last 5	15:03:08	3900.02	23.20	6.26	6958.51	4.43	12.46	0.09	-286.32
Last 5	15:08:08	4200.02	23.10	6.27	6973.32	4.05	12.46	0.10	-294.09
Variance 0			-0.12	0.01	-32.19			-0.02	-11.72
Variance 1			0.08	0.00	22.08			0.00	-10.03
Variance 2			-0.11	0.01	14.80			0.02	-7.77

Notes

Sample@1512 , field blank 01@1518 sunny 92

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-29 14:46:55

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Background-4
Site Name Smith Plant
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 42.0 ft

Pump placement from TOC 38.0 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 14.44 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 111 in
Total Volume Pumped 36 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	14:14:14	3900.00	25.15	4.73	11858.80	1.26	23.58	0.06	47.64
Last 5	14:19:14	4200.00	25.00	4.74	11882.77	1.18	23.60	0.06	41.32
Last 5	14:29:14	4800.00	25.07	4.76	11874.86	0.80	23.65	0.05	29.47
Last 5	14:34:18	5104.00	25.04	4.75	11852.93	0.87	23.65	0.05	23.85
Last 5	14:39:18	5404.00	24.96	4.75	11844.81	0.87	23.72	0.05	18.73
Variance 0			0.07	0.02	-7.91			-0.00	-11.85
Variance 1			-0.03	-0.01	-21.93			-0.00	-5.62
Variance 2			-0.08	0.01	-8.11			-0.00	-5.12

Notes

Sample time 1441. Dup-01 fake time 1341. P/C 89.

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-30 07:18:34

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background 4
Site Name Plant Smith Background 4
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-09
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 9.91 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 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	07:03:03	300.04	23.70	5.03	10844.12	2.33	9.99	0.25	-71.30
Last 5	07:08:03	600.02	23.70	5.06	10856.41	4.35	10.00	0.23	-72.21
Last 5	07:13:03	900.02	23.79	5.09	10808.47	3.96	10.00	0.20	-74.54
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			0.00	0.03	12.29			-0.03	-0.91
Variance 2			0.09	0.03	-47.93			-0.03	-2.33

Notes

Sample@0717, DUP-02@0617 sunny75

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-30 08:23:12

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background 4
Site Name Plant Smith Background 4
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 6.10 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.18 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	08:12:06	300.02	25.10	5.30	11868.18	3.28	6.25	0.21	-112.83
Last 5	08:17:06	600.02	25.07	5.30	11834.54	3.18	6.28	0.18	-112.04
Last 5	08:22:06	900.02	25.23	5.31	11876.88	3.07	6.28	0.15	-112.14
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.02	0.01	-33.64			-0.03	0.79
Variance 2			0.16	0.01	42.34			-0.03	-0.10

Notes

Sample@0822 Sunny 79

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-30 09:50:27

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Background 4
Site Name Plant Smith Background 4
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 8.70 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.1 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	09:27:52	2100.02	25.14	6.67	10031.35	6.11	8.80	0.11	-333.32
Last 5	09:32:52	2400.03	25.75	6.64	10084.69	5.49	8.80	0.10	-336.69
Last 5	09:37:52	2700.02	26.00	6.62	10022.86	5.12	8.80	0.10	-339.03
Last 5	09:42:52	3000.02	25.82	6.62	10077.45	4.69	8.80	0.10	-340.98
Last 5	09:47:52	3300.02	25.89	6.59	10156.77	4.33	8.80	0.10	-341.66
Variance 0			0.25	-0.02	-61.82			-0.01	-2.34
Variance 1			-0.18	-0.00	54.59			-0.00	-1.95
Variance 2			0.07	-0.03	79.32			0.00	-0.68

Notes

Sample@0948, Field Blank -02@0955, EQ Blank -02@1005, Sunny 83

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-29 10:30:56

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Background-4
Site Name Smith Plant
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 34 ft

Pump placement from TOC 27.0 ft

Well Information:

Well ID MW-12
Well diameter 2 in
Well Total Depth 32.0 ft
Screen Length 10 ft
Depth to Water 9.35 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2417564 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.76 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	10:06:20	1800.02	26.07	6.03	953.77	1.30	13.62	0.09	26.67
Last 5	10:11:20	2100.02	25.73	6.02	955.60	1.24	13.80	0.09	25.18
Last 5	10:16:20	2400.02	25.53	6.01	954.53	1.42	13.90	0.09	23.70
Last 5	10:21:20	2700.02	25.54	6.01	948.54	1.37	14.00	0.09	22.18
Last 5	10:26:20	3000.02	25.50	6.01	941.20	1.57	14.11	0.08	21.04
Variance 0			-0.19	-0.01	-1.06			0.00	-1.48
Variance 1			0.01	0.00	-5.99			-0.00	-1.52
Variance 2			-0.05	0.00	-7.34			-0.01	-1.14

Notes

Sample time 1031. P/C 84.

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-29 12:07:32

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Background-4
Site Name Smith Plant
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 42.0 ft

Pump placement from TOC 38.0 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43.0 ft
Screen Length 10 ft
Depth to Water 15.10 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 63 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	11:43:13	900.02	24.32	6.98	16416.27	0.87	19.69	0.06	-330.75
Last 5	11:48:13	1200.02	24.43	6.97	16422.87	0.94	20.02	0.06	-339.33
Last 5	11:53:13	1500.02	24.49	6.97	16412.33	0.99	20.24	0.06	-344.91
Last 5	11:58:13	1800.02	24.48	6.96	16418.77	0.85	20.34	0.06	-347.32
Last 5	12:03:13	2100.02	24.54	6.97	16380.69	0.93	20.39	0.05	-350.57
Variance 0			0.07	-0.00	-10.54			-0.00	-5.58
Variance 1			-0.01	-0.01	6.45			0.00	-2.41
Variance 2			0.06	0.00	-38.08			-0.01	-3.25

Notes

Sample time 1207. P/C 87.

Grab Samples

Product Name: Low-Flow System

Date: 2016-08-29 16:16:32

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Background-4
Site Name Smith Plant
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 46 ft

Pump placement from TOC 36.0 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41.0 ft
Screen Length 10 ft
Depth to Water 20.60 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2953174 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15 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	15:48:08	1200.01	23.96	6.62	8682.38	0.45	21.89	0.06	-141.65
Last 5	15:53:08	1500.01	23.99	6.64	8696.83	0.41	21.89	0.05	-170.13
Last 5	16:03:08	2100.01	24.01	6.65	8714.21	0.36	21.89	0.04	-200.23
Last 5	16:08:08	2400.01	24.14	6.65	8663.76	0.45	21.89	0.04	-206.05
Last 5	16:13:08	2700.01	24.14	6.65	8662.85	0.45	21.89	0.03	-209.15
Variance 0			0.02	0.02	17.37			-0.01	-30.10
Variance 1			0.13	-0.00	-50.44			-0.01	-5.83
Variance 2			-0.00	-0.00	-0.92			-0.00	-3.09

Notes

Sample time 1616. P/C 91.

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-01 09:20:00

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 28 ft

Pump placement from TOC 21 ft

Well Information:

Well ID MW-02
Well diameter 2 in
Well Total Depth 26 ft
Screen Length 10 ft
Depth to Water 7.11 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13 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	08:58:18	1200.02	23.30	6.58	393.10	1.59	8.29	0.06	-110.09
Last 5	09:03:18	1500.02	23.43	6.58	379.82	0.99	8.30	0.06	-113.92
Last 5	09:08:18	1800.02	23.56	6.60	380.59	0.85	8.30	0.05	-117.73
Last 5	09:13:18	2100.02	23.66	6.62	382.56	0.82	8.30	0.05	-121.27
Last 5	09:18:18	2400.02	23.74	6.65	384.69	0.77	8.30	0.05	-123.73
Variance 0			0.13	0.02	0.77			-0.01	-3.81
Variance 1			0.09	0.02	1.97			0.00	-3.54
Variance 2			0.08	0.02	2.12			-0.00	-2.46

Notes

Sample@0919, Sunny 61

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-01 13:29:54

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-03
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 8.46 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.34 in
Total Volume Pumped 88 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	13:08:23	12000.02	24.06	4.94	53.09	22.70	8.50	0.04	24.39
Last 5	13:13:23	12300.02	24.15	4.93	52.93	22.30	8.50	0.04	24.37
Last 5	13:18:23	12600.02	24.21	4.92	53.70	21.70	8.50	0.03	24.21
Last 5	13:23:23	12900.02	24.26	4.92	53.22	20.50	8.50	0.05	24.26
Last 5	13:28:23	13200.03	24.24	4.91	53.13	19.60	8.50	0.04	24.35
Variance 0			0.06	-0.01	0.77			-0.01	-0.16
Variance 1			0.05	-0.00	-0.48			0.02	0.06
Variance 2			-0.02	-0.00	-0.10			-0.01	0.09

Notes

Sample@1329, Sunny 85

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-02 12:35:32

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 14.10 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 25 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	12:13:39	2401.02	24.31	5.30	12024.99	1.15	16.21	0.05	-149.27
Last 5	12:18:39	2701.02	24.33	5.26	12145.95	1.22	16.21	0.06	-140.83
Last 5	12:23:39	3001.02	24.34	5.23	12195.09	1.37	16.22	0.06	-134.91
Last 5	12:28:39	3301.02	24.15	5.21	12340.41	1.45	16.22	0.05	-129.28
Last 5	12:33:39	3601.02	24.19	5.20	12405.98	1.39	16.22	0.05	-126.43
Variance 0			0.00	-0.02	49.14			0.00	5.92
Variance 1			-0.19	-0.02	145.31			-0.00	5.63
Variance 2			0.04	-0.01	65.57			-0.00	2.86

Notes

Sample@1233, FB-01@1245, Sunny 82

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-02 13:43:40

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-07
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 13.60 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.46 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	13:21:58	600.03	24.61	5.74	6825.33	6.23	14.06	0.07	-129.46
Last 5	13:26:58	900.02	24.62	6.05	6844.34	3.09	14.06	0.06	-179.08
Last 5	13:31:58	1200.02	24.30	6.08	6869.27	3.14	14.06	0.06	-186.81
Last 5	13:36:58	1500.02	24.35	6.08	6860.88	2.62	14.06	0.06	-190.19
Last 5	13:41:58	1800.02	24.35	6.09	6865.97	2.41	14.06	0.06	-192.94
Variance 0			-0.32	0.03	24.94			-0.00	-7.73
Variance 1			0.05	0.00	-8.39			0.00	-3.38
Variance 2			0.01	0.01	5.09			-0.00	-2.75

Notes

Sample@1342, EB-01@1355 Sunny 84

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-02 09:27:43

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 15.82 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 45 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	09:06:13	1800.02	22.76	4.40	13163.47	1.02	19.74	0.06	-87.17
Last 5	09:11:14	2101.02	22.80	4.53	13235.54	0.81	19.77	0.06	-96.97
Last 5	09:16:14	2401.02	22.89	4.59	13229.41	0.83	19.79	0.06	-100.21
Last 5	09:21:14	2701.02	23.07	4.60	13177.23	0.77	19.80	0.06	-100.58
Last 5	09:26:14	3001.02	23.08	4.63	13222.24	0.65	19.80	0.06	-100.82
Variance 0			0.09	0.06	-6.13			0.00	-3.24
Variance 1			0.18	0.01	-52.18			-0.00	-0.37
Variance 2			0.01	0.03	45.01			0.00	-0.25

Notes

Sample@0927, Cloudy - 71

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-03 11:00:17

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-09
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 11.77 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.79 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	10:37:36	2400.03	24.78	5.90	10652.87	6.00	12.56	0.16	-157.93
Last 5	10:42:36	2700.02	25.49	5.94	10306.92	5.27	12.56	0.06	-162.23
Last 5	10:47:36	3000.02	25.55	5.96	10317.08	4.82	12.56	0.05	-166.18
Last 5	10:52:36	3300.03	25.71	5.98	10292.96	4.09	12.56	0.05	-168.65
Last 5	10:57:36	3600.02	25.64	5.99	10300.54	3.66	12.56	0.05	-170.90
Variance 0			0.06	0.02	10.16			-0.01	-3.94
Variance 1			0.16	0.02	-24.12			-0.00	-2.48
Variance 2			-0.06	0.01	7.58			0.00	-2.25

Notes

Sample@1059, EB-02@1110 Sunny 81

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-03 09:28:28

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 8.36 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13 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	09:07:02	2100.02	24.92	5.07	11434.47	1.21	9.39	0.08	-119.59
Last 5	09:12:02	2400.02	24.99	5.08	11459.09	1.09	9.40	0.08	-120.72
Last 5	09:17:02	2700.03	25.14	5.06	11444.69	0.96	9.40	0.07	-120.31
Last 5	09:22:02	3000.02	25.26	5.06	11492.28	0.87	9.40	0.08	-120.08
Last 5	09:27:02	3300.02	25.26	5.07	11432.82	0.73	9.40	0.07	-119.74
Variance 0			0.15	-0.02	-14.40			-0.00	0.41
Variance 1			0.12	-0.00	47.59			0.00	0.23
Variance 2			0.01	0.01	-59.46			-0.00	0.35

Notes

Sample@0927, FB-02@0940 Sunny 74

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-03 07:49:51

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 9.56 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16 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	07:32:37	300.07	22.94	6.52	9486.81	1.64	10.75	0.15	-266.33
Last 5	07:37:37	600.02	23.18	6.53	9440.54	1.58	10.95	0.12	-275.42
Last 5	07:42:37	900.02	23.11	6.53	9429.74	1.51	10.99	0.11	-280.66
Last 5	07:47:37	1200.02	22.99	6.54	9481.94	1.42	11.02	0.10	-283.44
Last 5									
Variance 0			0.25	0.01	-46.26			-0.03	-9.09
Variance 1			-0.08	0.01	-10.81			-0.01	-5.24
Variance 2			-0.11	0.00	52.21			-0.02	-2.77

Notes

Sample@0748, DUP-03@0648 partly cloudy 69

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-01 14:49:50

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-12
Well diameter 2 in
Well Total Depth 32 ft
Screen Length 10 ft
Depth to Water 9.77 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 33 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%	+/- 10		+/- 0.2	+/- 10
Last 5	14:27:04	900.02	26.01	5.99	1132.54	1.79	12.05	0.06	-19.80
Last 5	14:32:04	1200.02	25.97	6.01	1148.82	1.64	12.30	0.06	-25.78
Last 5	14:37:04	1500.02	25.83	6.02	1156.45	1.33	12.56	0.05	-30.09
Last 5	14:42:04	1800.02	25.78	6.02	1160.63	1.29	12.63	0.05	-34.02
Last 5	14:47:04	2100.02	25.63	6.03	1164.40	1.18	12.69	0.05	-37.38
Variance 0			-0.14	0.01	7.62			-0.01	-4.30
Variance 1			-0.05	0.00	4.18			0.00	-3.93
Variance 2			-0.15	0.00	3.77			-0.00	-3.36

Notes

Sample@1447, DUP-01@1347, Sunny 84

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-02 07:59:27

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 16.15 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 39 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%	+/- 10		+/- 0.2	+/- 10
Last 5	07:37:39	900.02	22.54	6.95	17992.63	4.00	18.88	0.05	-337.16
Last 5	07:42:39	1200.02	22.58	6.91	18132.49	0.76	19.16	0.05	-344.31
Last 5	07:47:39	1500.02	22.61	6.92	18113.04	0.46	19.30	0.05	-350.46
Last 5	07:52:39	1800.02	22.58	6.95	18324.06	0.33	19.41	0.05	-355.68
Last 5	07:57:39	2100.02	22.58	6.96	18273.16	0.45	19.46	0.04	-358.85
Variance 0			0.03	0.01	-19.45			-0.00	-6.14
Variance 1			-0.03	0.03	211.03			-0.00	-5.22
Variance 2			0.00	0.01	-50.90			-0.00	-3.17

Notes

Sample@0758, DUP-02@0658, Cloudy 67

Grab Samples

Product Name: Low-Flow System

Date: 2016-11-02 10:48:26

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Plant Smith
Site Name Plant Smith BKG-5
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 43 ft

Pump placement from TOC 36 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41 ft
Screen Length 10 ft
Depth to Water 22.22 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.6 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	10:26:24	1800.02	23.38	6.64	9788.11	0.61	22.82	0.05	-264.05
Last 5	10:31:24	2100.02	23.45	6.65	9786.61	0.54	22.82	0.05	-282.46
Last 5	10:36:24	2400.02	23.47	6.65	9762.95	0.66	22.82	0.05	-292.66
Last 5	10:41:24	2700.02	23.55	6.65	9761.99	0.72	22.82	0.05	-297.89
Last 5	10:46:24	3000.02	23.56	6.65	9745.96	0.63	22.82	0.05	-301.63
Variance 0			0.02	0.00	-23.67			-0.00	-10.20
Variance 1			0.08	0.00	-0.95			0.00	-5.23
Variance 2			0.02	0.00	-16.03			-0.00	-3.74

Notes

Sample@1047, Sunny 76

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-04 12:54:14

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 28 ft

Pump placement from TOC 21 ft

Well Information:

Well ID MW-02
Well diameter 2 in
Well Total Depth 26 ft
Screen Length 10 ft
Depth to Water 4.37 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16 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%	+/- 10		+/- 0.2	+/- 10
Last 5	12:31:59	3000.02	21.59	6.89	369.69	7.33	5.71	0.05	-107.38
Last 5	12:36:59	3300.02	21.64	6.88	371.49	6.92	5.71	0.05	-106.88
Last 5	12:41:59	3600.02	21.37	6.89	369.52	6.21	5.71	0.05	-107.37
Last 5	12:46:59	3900.02	21.34	6.89	370.50	5.45	5.71	0.05	-106.47
Last 5	12:51:59	4200.02	21.27	6.88	370.36	4.97	5.71	0.05	-107.33
Variance 0			-0.26	0.01	-1.96			-0.00	-0.48
Variance 1			-0.03	-0.00	0.98			0.00	0.90
Variance 2			-0.07	-0.00	-0.14			0.00	-0.86

Notes

Sample@1253, DUP-01@1153, cloudy 64

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-04 15:48:44

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-03
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 6.08 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.1 in
Total Volume Pumped 54 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	15:27:26	6900.02	21.90	5.00	55.86	23.90	6.18	0.07	37.72
Last 5	15:32:26	7200.02	21.81	5.00	56.10	22.00	6.18	0.09	35.75
Last 5	15:37:26	7500.02	21.69	4.99	56.08	20.60	6.18	0.07	33.32
Last 5	15:42:26	7800.02	21.59	4.98	56.13	20.10	6.18	0.07	30.98
Last 5	15:47:26	8100.02	21.64	4.99	56.19	19.50	6.18	0.06	28.46
Variance 0			-0.13	-0.01	-0.02			-0.01	-2.44
Variance 1			-0.09	-0.01	0.05			-0.00	-2.33
Variance 2			0.04	0.01	0.06			-0.01	-2.52

Notes

Sample@1548, Cloudy 61

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-05 16:36:51

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 13.13 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 25 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	16:15:38	1800.02	22.84	5.54	10923.99	1.26	15.21	0.11	-188.77
Last 5	16:20:38	2100.02	22.83	5.37	11535.68	1.42	15.22	0.10	-175.67
Last 5	16:25:38	2400.02	22.84	5.30	11848.86	1.23	15.24	0.13	-167.79
Last 5	16:30:38	2700.02	22.76	5.23	12076.30	1.18	15.25	0.12	-161.03
Last 5	16:35:38	3000.02	22.73	5.20	12160.89	1.11	15.25	0.10	-157.81
Variance 0			0.01	-0.08	313.17			0.03	7.88
Variance 1			-0.09	-0.06	227.45			-0.01	6.76
Variance 2			-0.02	-0.03	84.59			-0.03	3.22

Notes

Sample@1636,EBAY-02@1650 sunny60

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-05 15:23:15

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-07
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 11.54 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.51 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	15:02:09	1500.02	22.73	5.56	6735.04	1.25	12.05	0.09	-190.03
Last 5	15:07:09	1800.02	22.63	6.14	6703.19	1.11	12.05	0.09	-238.14
Last 5	15:12:09	2100.02	22.44	6.17	6737.53	1.18	12.05	0.09	-241.52
Last 5	15:17:09	2400.02	22.30	6.18	6736.32	1.33	12.05	0.09	-241.85
Last 5	15:22:09	2700.02	22.24	6.18	6721.83	1.39	12.05	0.09	-242.24
Variance 0			-0.19	0.02	34.34			0.00	-3.37
Variance 1			-0.14	0.01	-1.21			0.00	-0.34
Variance 2			-0.06	0.01	-14.49			-0.00	-0.39

Notes

Sample@1522, FB-02@1450 sunny62

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-05 13:11:52

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 14.42 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 40 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	12:49:50	1500.02	22.71	4.32	12662.63	1.11	17.65	0.15	-142.01
Last 5	12:54:50	1800.02	22.75	4.52	12705.43	1.21	17.76	0.12	-147.56
Last 5	12:59:50	2100.02	22.71	4.57	12733.01	1.11	17.82	0.16	-155.40
Last 5	13:04:50	2400.02	22.80	4.63	12787.55	1.03	17.85	0.13	-161.07
Last 5	13:09:50	2700.03	22.76	4.66	12745.41	1.18	17.86	0.12	-158.79
Variance 0			-0.04	0.05	27.58			0.04	-7.84
Variance 1			0.09	0.06	54.54			-0.04	-5.68
Variance 2			-0.04	0.03	-42.14			-0.01	2.29

Notes

Sample@1311, FB-01@1230, Sunny 62

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-05 11:01:57

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-09
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 9.95 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.5 in
Total Volume Pumped 44 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	10:40:44	5401.03	21.41	5.91	10027.71	4.71	11.00	0.10	-203.20
Last 5	10:45:44	5701.02	21.72	5.92	9991.34	4.64	11.00	0.10	-202.89
Last 5	10:50:44	6001.02	21.82	5.92	10008.64	4.55	11.00	0.10	-203.30
Last 5	10:55:44	6301.02	21.93	5.93	9901.34	4.45	11.00	0.10	-204.45
Last 5	11:00:44	6601.02	21.90	5.94	9976.19	4.49	11.00	0.09	-205.25
Variance 0			0.09	-0.00	17.30			0.00	-0.41
Variance 1			0.11	0.02	-107.30			0.00	-1.15
Variance 2			-0.03	0.01	74.85			-0.01	-0.80

Notes

Sample@1101, Sunny 58

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-05 08:43:48

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 6.07 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.64 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	08:27:15	300.03	19.41	5.07	11133.48	5.21	6.85	0.21	-207.08
Last 5	08:32:15	600.02	20.17	5.13	11134.57	4.67	6.96	0.16	-195.33
Last 5	08:37:15	900.02	20.19	5.18	11197.71	4.38	6.71	0.13	-190.70
Last 5	08:42:15	1200.03	20.35	5.30	11146.04	3.97	6.72	0.12	-192.11
Last 5									
Variance 0			0.76	0.06	1.10			-0.05	11.75
Variance 1			0.02	0.05	63.14			-0.02	4.64
Variance 2			0.16	0.12	-51.67			-0.01	-1.42

Notes

Sample@0843, Sunny 51

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-05 07:56:17

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 8.31 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 19 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	07:35:05	1200.02	19.23	6.61	9085.13	1.86	10.05	0.14	-322.27
Last 5	07:40:05	1500.02	19.52	6.58	9126.17	1.64	10.06	0.15	-324.80
Last 5	07:45:05	1800.02	19.79	6.54	9201.40	1.44	10.06	0.13	-327.45
Last 5	07:50:05	2100.02	19.63	6.52	9220.51	1.29	10.06	0.13	-328.71
Last 5	07:55:05	2400.04	19.59	6.50	9209.65	1.22	10.06	0.13	-329.15
Variance 0			0.27	-0.04	75.23			-0.02	-2.65
Variance 1			-0.16	-0.02	19.11			-0.00	-1.25
Variance 2			-0.04	-0.02	-10.87			-0.00	-0.44

Notes

Sample@0755, Sunny 44

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-04 10:58:41

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 34 ft

Pump placement from TOC 27 ft

Well Information:

Well ID MW-12
Well diameter 2 in
Well Total Depth 32 ft
Screen Length 10 ft
Depth to Water 9.74 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.2417564 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 39 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	10:37:21	1200.02	22.41	6.14	1180.08	1.13	12.75	0.18	-74.66
Last 5	10:42:21	1500.03	22.36	6.13	1182.78	1.09	12.88	0.18	-76.06
Last 5	10:47:21	1800.03	22.15	6.12	1194.04	0.98	12.95	0.19	-76.88
Last 5	10:52:21	2100.02	22.22	6.11	1190.06	0.86	12.99	0.16	-77.53
Last 5	10:57:21	2400.03	22.26	6.10	1186.09	0.94	13.03	0.10	-77.76
Variance 0			-0.22	-0.01	11.25			0.01	-0.82
Variance 1			0.07	-0.01	-3.97			-0.03	-0.64
Variance 2			0.04	-0.01	-3.97			-0.06	-0.24

Notes

Sample@1058, cloudy 62

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-05 14:05:50

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 14.48 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 28 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	13:49:11	300.02	23.43	7.01	17651.96	2.56	15.98	0.23	-317.33
Last 5	13:54:11	600.02	23.29	7.01	17655.71	2.25	16.64	0.15	-318.82
Last 5	13:59:11	900.02	23.43	7.02	17573.45	2.34	16.85	0.13	-319.93
Last 5	14:04:11	1200.02	23.36	7.02	17643.77	2.43	16.91	0.12	-320.23
Last 5									
Variance 0			-0.14	0.01	3.75			-0.08	-1.49
Variance 1			0.14	0.00	-82.25			-0.02	-1.11
Variance 2			-0.07	0.00	70.32			-0.02	-0.30

Notes

Sample@1405,EB-01@1415, Sunny 65

Grab Samples

Product Name: Low-Flow System

Date: 2017-01-05 11:45:31

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-6
Site Name Plant Smith BKG-6
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 43 ft

Pump placement from TOC 36 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41 ft
Screen Length 10 ft
Depth to Water 21.11 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.74 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	11:33:51	300.03	22.66	6.69	9668.09	2.14	21.84	0.10	-265.46
Last 5	11:38:51	600.02	22.61	6.70	9657.80	1.24	21.85	0.08	-265.78
Last 5	11:43:51	900.02	22.53	6.70	9676.86	0.97	21.85	0.09	-266.14
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.05	0.00	-10.29			-0.01	-0.32
Variance 2			-0.08	0.00	19.06			0.01	-0.35

Notes

Samole@1144, DUP-02@1044 Partly Cloudy 61

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-10 14:55:36

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 28 ft

Pump placement from TOC 21 ft

Well Information:

Well ID MW-02
Well diameter 2 in
Well Total Depth 26 ft
Screen Length 10 ft
Depth to Water 5.02 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20 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	14:37:42	300.05	21.72	6.29	334.70	5.99	6.19	0.09	17.59
Last 5	14:42:42	600.02	21.19	6.49	337.67	6.01	6.57	0.06	-12.08
Last 5	14:47:42	900.01	21.25	6.54	334.58	5.98	6.70	0.05	-23.23
Last 5	14:52:42	1200.01	21.28	6.59	332.93	5.12	6.78	0.04	-29.70
Last 5									
Variance 0			-0.52	0.21	2.97			-0.03	-29.68
Variance 1			0.06	0.05	-3.09			-0.01	-11.14
Variance 2			0.03	0.05	-1.65			-0.01	-6.47

Notes

Sample time 1455. P/C 72.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-10 18:31:26

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 33 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-03
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 5.94 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.237293 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 68 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	18:02:30	8700.07	21.20	5.00	48.76	21.90	6.12	0.03	-29.74
Last 5	18:07:30	9000.07	21.19	5.01	48.80	22.70	6.12	0.03	-28.96
Last 5	18:12:30	9300.07	21.19	5.00	48.79	21.50	6.12	0.03	-31.46
Last 5	18:17:30	9600.07	21.15	5.01	48.81	21.10	6.12	0.03	-23.40
Last 5	18:27:30	10200.07	21.10	5.02	48.81	19.50	6.12	0.03	-32.42
Variance 0			0.00	-0.01	-0.01			0.00	-2.51
Variance 1			-0.04	0.01	0.02			-0.00	8.06
Variance 2			-0.05	0.00	-0.00			-0.00	-9.01

Notes

Sample time 1830. Dup 01 fake time 1730. Nighttime 70.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-11 09:38:18

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 13.62 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 54 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	09:14:09	1200.04	23.29	5.17	10836.36	2.83	17.53	0.06	-164.49
Last 5	09:19:09	1500.10	23.35	5.13	10980.66	1.96	17.84	0.06	-161.22
Last 5	09:24:09	1800.03	23.41	5.10	11096.60	1.71	17.99	0.06	-157.97
Last 5	09:29:09	2100.03	23.50	5.07	11178.06	1.55	18.16	0.05	-158.03
Last 5	09:34:09	2400.03	23.52	5.05	11252.25	1.35	18.25	0.05	-154.10
Variance 0			0.05	-0.04	115.94			-0.00	3.25
Variance 1			0.10	-0.02	81.47			-0.01	-0.05
Variance 2			0.01	-0.02	74.19			0.00	3.92

Notes

Sample time 0936. EB-01 sample time 0842. FB-01 sample time 0835. Sunny 58.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-11 08:04:10

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-07
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 12.02 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.67 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	07:42:14	1200.01	22.46	6.20	6128.20	15.00	12.69	0.08	-251.91
Last 5	07:47:14	1500.01	22.31	6.22	6158.39	10.70	12.69	0.07	-255.92
Last 5	07:52:14	1800.01	22.35	6.26	6162.44	7.80	12.69	0.07	-259.79
Last 5	07:57:14	2100.01	22.29	6.31	6178.64	4.72	12.69	0.06	-262.99
Last 5	08:02:14	2400.03	22.46	6.34	6226.35	3.80	12.69	0.07	-265.94
Variance 0			0.05	0.04	4.04			0.00	-3.86
Variance 1			-0.06	0.05	16.21			-0.01	-3.20
Variance 2			0.17	0.03	47.70			0.00	-2.95

Notes

Sample time 0803. Sunny 52.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-11 12:15:41

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 14.95 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 93 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	11:51:10	1500.01	23.61	4.30	11386.85	1.78	21.93	0.06	-124.03
Last 5	11:56:10	1800.01	23.61	4.42	11486.64	1.84	22.30	0.06	-131.00
Last 5	12:01:10	2100.01	23.65	4.53	11426.13	2.36	22.62	0.07	-136.88
Last 5	12:06:10	2400.04	23.57	4.61	11530.94	1.55	22.77	0.06	-141.92
Last 5	12:11:10	2700.04	23.61	4.66	11532.60	1.55	22.88	0.07	-145.11
Variance 0			0.04	0.11	-60.51			0.00	-5.88
Variance 1			-0.08	0.08	104.81			-0.01	-5.03
Variance 2			0.04	0.04	1.66			0.01	-3.20

Notes

Sample time 1214. P/C 67.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-11 15:47:51

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-09
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 10.48 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 18 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	15:24:10	900.01	22.67	5.16	9072.23	15.40	12.04	0.38	-122.75
Last 5	15:29:10	1200.02	22.62	5.33	9070.14	10.40	12.05	0.22	-137.68
Last 5	15:34:10	1500.01	22.61	5.44	9039.29	11.90	12.06	0.16	-147.44
Last 5	15:39:10	1800.01	22.62	5.56	9015.35	8.69	12.06	0.22	-153.45
Last 5	15:44:10	2100.01	22.60	5.62	9008.85	6.46	12.06	0.26	-154.70
Variance 0			-0.01	0.10	-30.84			-0.06	-9.77
Variance 1			0.01	0.12	-23.94			0.06	-6.00
Variance 2			-0.02	0.06	-6.50			0.04	-1.26

Notes

Sample time 1546. Cloudy 72.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-11 16:50:44

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 6.69 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17 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	16:28:21	300.06	23.10	5.21	10008.48	119.00	7.83	0.14	-142.81
Last 5	16:33:21	600.02	23.11	5.30	10049.28	32.70	8.04	0.11	-163.83
Last 5	16:38:21	900.02	23.03	5.23	10072.74	12.50	8.15	0.10	-161.53
Last 5	16:43:21	1200.01	23.00	5.22	10065.19	6.80	8.19	0.10	-162.20
Last 5	16:48:21	1500.01	22.98	5.24	10055.71	5.12	8.23	0.09	-163.85
Variance 0			-0.08	-0.07	23.46			-0.01	2.29
Variance 1			-0.03	-0.01	-7.55			-0.00	-0.67
Variance 2			-0.02	0.02	-9.48			-0.01	-1.65

Notes

Sample time 1650. Cloudy 70.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-11 18:01:37

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 9.17 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 35 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	17:44:23	300.02	22.71	6.40	8440.13	2.20	11.12	0.16	-270.15
Last 5	17:49:23	600.01	22.77	6.35	8265.89	2.00	11.84	0.11	-261.87
Last 5	17:54:23	900.02	22.80	6.33	8371.54	3.86	12.02	0.11	-262.14
Last 5	17:59:23	1200.01	22.60	6.32	8414.61	5.15	12.08	0.12	-262.44
Last 5									
Variance 0			0.06	-0.05	-174.24			-0.05	8.28
Variance 1			0.03	-0.01	105.65			-0.01	-0.27
Variance 2			-0.20	-0.02	43.07			0.02	-0.30

Notes

EB-02 sample time 1730. FB-02 sample time 1720. Dusk 69.
Sample time 1801

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-10 13:11:24

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 34 ft

Pump placement from TOC 27 ft

Well Information:

Well ID MW-12
Well diameter 2 in
Well Total Depth 32 ft
Screen Length 10 ft
Depth to Water 10.25 ft

Pumping Information:

Final Pumping Rate 260 mL/min
Total System Volume 0.2417564 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 58 in
Total Volume Pumped 11.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	12:46:36	1500.01	23.32	6.13	1035.99	2.79	14.57	0.05	-8.89
Last 5	12:51:36	1800.01	23.34	6.13	1032.28	1.63	14.74	0.05	-24.50
Last 5	12:56:36	2100.02	23.35	6.12	1019.76	2.04	14.92	0.05	-43.80
Last 5	13:01:36	2400.01	23.40	6.12	1014.95	1.80	15.04	0.05	-61.42
Last 5	13:06:36	2700.03	23.39	6.10	1000.88	2.23	15.17	0.04	-77.42
Variance 0			0.01	-0.01	-12.52			-0.00	-19.30
Variance 1			0.05	-0.00	-4.81			-0.00	-17.63
Variance 2			-0.02	-0.01	-14.07			-0.00	-16.00

Notes

Sample time 1310. P/C 70.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-11 10:56:43

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 15.33 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 62 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	10:34:18	900.01	23.56	7.03	16128.16	1.00	19.68	0.06	-337.67
Last 5	10:39:18	1200.01	23.57	7.00	16161.01	0.97	20.04	0.06	-341.66
Last 5	10:44:18	1500.01	23.64	6.99	16127.34	0.83	20.28	0.05	-342.83
Last 5	10:49:18	1800.01	23.61	6.98	16103.40	0.89	20.39	0.05	-342.08
Last 5	10:54:18	2100.01	23.63	6.97	16167.48	0.66	20.48	0.05	-340.68
Variance 0			0.07	-0.01	-33.66			-0.00	-1.17
Variance 1			-0.03	-0.01	-23.95			-0.01	0.75
Variance 2			0.02	-0.00	64.08			0.00	1.40

Notes

Sample time 1057. Sunny 62.

Grab Samples

Product Name: Low-Flow System

Date: 2017-03-11 13:33:23

Project Information:

Operator Name Rick Hagendorfer
Company Name RDH Env
Project Name Smith BKG-7
Site Name Smith Plant
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 424893
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type PP
Tubing Type PE
Tubing Diameter .17 in
Tubing Length 43 ft

Pump placement from TOC 36 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41 ft
Screen Length 10 ft
Depth to Water 21.49 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.12 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.2	+/- 0.2	+/- 5%	+/- 5		+/- 0.2	+/- 10
Last 5	13:19:42	300.06	23.54	6.60	8718.52	1.19	22.49	0.15	-259.30
Last 5	13:24:42	600.02	23.49	6.61	8689.55	1.03	22.59	0.12	-264.72
Last 5	13:29:42	900.01	23.57	6.63	8709.06	1.38	22.61	0.10	-266.04
Last 5									
Variance 0			nan	nan	nan			nan	nan
Variance 1			-0.05	0.02	-28.98			-0.04	-5.42
Variance 2			0.07	0.02	19.51			-0.02	-1.32

Notes

Sample time 1333. Dup-02 fake time 1233.

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-11 11:18:12

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 28 ft

Pump placement from TOC 21 ft

Well Information:

Well ID MW-02
Well diameter 2 in
Well Total Depth 26 ft
Screen Length 10 ft
Depth to Water 5.89 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 16 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	10:56:51	300.02	23.56	6.54	393.93	1.00	7.20	0.10	-76.85
Last 5	11:01:51	600.02	23.59	6.62	395.71	0.73	7.32	0.08	-89.45
Last 5	11:06:51	900.02	23.37	6.66	396.17	0.98	7.35	0.07	-97.43
Last 5	11:11:51	1200.02	23.32	6.68	395.51	1.19	7.35	0.07	-102.56
Last 5	11:16:51	1500.02	23.24	6.70	396.23	1.07	7.36	0.07	-106.44
Variance 0			-0.22	0.04	0.46			-0.01	-7.98
Variance 1			-0.05	0.02	-0.67			-0.00	-5.13
Variance 2			-0.07	0.01	0.73			0.00	-3.88

Notes

Sample@1117, Sunny 82

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-11 14:19:29

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-03
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 7.14 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.06 in
Total Volume Pumped 62 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	13:58:03	8100.02	23.67	4.77	58.22	24.30	7.20	0.08	13.42
Last 5	14:03:03	8400.02	23.69	4.77	58.37	22.70	7.20	0.07	12.20
Last 5	14:08:03	8700.02	23.65	4.77	58.43	21.80	7.20	0.08	10.42
Last 5	14:13:03	9000.02	23.58	4.76	58.37	20.50	7.20	0.08	9.61
Last 5	14:18:03	9300.02	23.70	4.76	58.45	19.20	7.20	0.08	8.51
Variance 0			-0.05	0.00	0.07			0.00	-1.78
Variance 1			-0.06	-0.01	-0.06			-0.00	-0.81
Variance 2			0.11	-0.00	0.08			0.01	-1.10

Notes

Sample@1418, Partly Cloudy 82

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-11 15:35:57

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 14.97 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15 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	15:13:04	1200.02	25.00	5.28	10821.89	2.29	16.35	0.12	-128.03
Last 5	15:18:04	1500.02	25.13	5.13	11755.53	1.69	16.35	0.12	-126.57
Last 5	15:23:04	1800.02	25.30	5.05	12143.63	1.37	16.36	0.11	-126.79
Last 5	15:28:04	2100.02	25.23	4.99	12390.16	1.23	16.36	0.10	-127.40
Last 5	15:33:04	2400.02	25.23	4.96	12541.94	1.09	16.36	0.11	-128.73
Variance 0			0.17	-0.08	388.10			-0.01	-0.22
Variance 1			-0.07	-0.06	246.54			-0.01	-0.61
Variance 2			0.01	-0.03	151.77			0.00	-1.33

Notes

Sample@1534 Partly Cloudy 80

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-12 07:43:06

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-07
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 12.75 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.47 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	07:21:20	2400.02	22.57	6.09	7112.32	4.67	13.22	0.12	-280.65
Last 5	07:26:20	2700.02	22.60	6.08	7116.67	5.11	13.22	0.12	-289.76
Last 5	07:31:20	3000.02	22.65	6.08	7118.30	4.82	13.22	0.12	-296.32
Last 5	07:36:20	3300.02	22.75	6.09	7119.69	4.29	13.22	0.12	-301.53
Last 5	07:41:20	3600.03	22.76	6.09	7125.15	4.02	13.22	0.12	-305.41
Variance 0			0.04	-0.00	1.62			0.00	-6.56
Variance 1			0.10	0.01	1.39			-0.00	-5.20
Variance 2			0.01	0.01	5.47			0.00	-3.89

Notes

Sample@0742, DUP -02@0642, cloudy 74

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-12 14:28:05

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 15.58 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 40 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%	+/- 10		+/- 0.2	+/- 10
Last 5	14:05:54	900.02	23.98	3.82	13126.72	1.89	18.90	0.14	-103.29
Last 5	14:10:54	1200.02	23.92	4.24	13362.71	2.01	18.96	0.14	-117.32
Last 5	14:15:54	1500.02	23.89	4.48	13515.90	2.15	18.99	0.13	-128.02
Last 5	14:20:54	1800.02	23.84	4.49	13527.85	1.06	19.00	0.14	-127.37
Last 5	14:25:54	2100.02	23.83	4.52	13526.72	0.96	19.00	0.13	-127.35
Variance 0			-0.02	0.23	153.19			-0.01	-10.70
Variance 1			-0.05	0.02	11.95			0.01	0.64
Variance 2			-0.01	0.03	-1.12			-0.01	0.02

Notes

Sample @1427, FB-02@1400, cloudy 79

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-12 12:09:53

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-09
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 11.00 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13 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	11:45:05	1801.02	25.03	5.61	10674.32	4.78	12.10	0.11	-206.08
Last 5	11:50:05	2101.02	25.41	5.63	10593.79	4.71	12.10	0.12	-205.56
Last 5	11:55:05	2401.05	25.51	5.69	10589.55	4.77	12.10	0.12	-206.56
Last 5	12:00:05	2701.03	25.68	5.73	10566.38	4.68	12.10	0.13	-207.30
Last 5	12:05:05	3001.02	25.53	5.74	10559.18	4.56	12.10	0.16	-205.73
Variance 0			0.10	0.06	-4.24			-0.00	-1.00
Variance 1			0.17	0.04	-23.17			0.01	-0.74
Variance 2			-0.15	0.01	-7.20			0.03	1.57

Notes

Sample@1207, FB-01@1115, EB-01@1225 Partly Cloudy 80

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-12 11:00:46

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 6.69 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.21 in
Total Volume Pumped 32 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	10:39:24	3600.02	25.49	5.13	11587.49	6.15	6.90	0.11	-269.05
Last 5	10:44:24	3900.02	26.82	5.15	11673.65	5.07	6.90	0.10	-269.58
Last 5	10:49:24	4200.02	26.53	5.13	11630.91	4.88	6.90	0.10	-269.66
Last 5	10:54:24	4500.02	26.21	5.13	11750.99	4.56	6.90	0.10	-268.55
Last 5	10:59:24	4800.02	25.43	5.12	11618.21	4.44	6.90	0.10	-267.56
Variance 0			-0.30	-0.01	-42.75			-0.00	-0.09
Variance 1			-0.32	-0.00	120.08			-0.00	1.11
Variance 2			-0.78	-0.01	-132.77			0.00	0.99

Notes

Sample@1100, Partly Cloudy 80

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-12 09:10:00

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 9.14 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 14 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	08:48:28	1500.03	25.69	6.65	7888.48	1.89	10.41	0.08	-349.38
Last 5	08:53:28	1800.03	26.00	6.65	7838.93	2.08	10.42	0.08	-354.49
Last 5	08:58:28	2100.02	26.19	6.64	7825.27	2.19	10.42	0.09	-358.79
Last 5	09:03:28	2400.02	26.38	6.63	7793.91	2.09	10.42	0.08	-362.02
Last 5	09:08:28	2700.02	26.37	6.61	7821.18	1.94	10.42	0.09	-363.87
Variance 0			0.19	-0.01	-13.66			0.00	-4.29
Variance 1			0.19	-0.02	-31.36			-0.00	-3.23
Variance 2			-0.01	-0.02	27.27			0.01	-1.85

Notes

Sample@0909, Partly Cloudy 76

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-11 09:57:18

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 35 ft

Pump placement from TOC 27 ft

Well Information:

Well ID MW-12
Well diameter 2 in
Well Total Depth 32 ft
Screen Length 10 ft
Depth to Water 10.17 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 49.3 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	09:35:00	1200.02	23.96	5.97	1215.75	0.64	14.22	0.08	-89.87
Last 5	09:40:00	1500.02	24.01	5.96	1192.36	0.77	14.26	0.08	-97.50
Last 5	09:45:00	1800.02	24.09	5.96	1169.77	0.72	14.27	0.08	-103.19
Last 5	09:50:00	2100.01	24.05	5.96	1160.65	0.69	14.28	0.07	-107.93
Last 5	09:55:00	2400.01	24.19	5.95	1139.65	0.56	14.28	0.07	-112.08
Variance 0			0.08	-0.00	-22.60			-0.00	-5.69
Variance 1			-0.04	-0.00	-9.12			-0.00	-4.74
Variance 2			0.14	-0.01	-21.00			-0.00	-4.15

Notes

Sample@0956, DUP-01, 0856 Sunny 78

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-12 15:21:58

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 15.90 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 28 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	15:00:55	300.02	24.33	7.16	18434.92	2.13	17.45	0.18	-306.60
Last 5	15:05:55	600.02	24.25	7.20	18431.54	1.59	18.11	0.12	-318.41
Last 5	15:10:55	900.03	24.30	7.21	18383.01	0.94	18.27	0.10	-324.97
Last 5	15:15:55	1200.02	24.37	7.22	18319.12	0.74	18.33	0.09	-329.91
Last 5	15:20:55	1500.03	24.34	7.21	18360.80	0.63	18.35	0.09	-334.53
Variance 0			0.05	0.01	-48.53			-0.02	-6.56
Variance 1			0.06	0.01	-63.89			-0.01	-4.95
Variance 2			-0.03	-0.00	41.69			-0.01	-4.62

Notes

Sample@1521, EB-02@1530, Cloudy 79

Grab Samples

Product Name: Low-Flow System

Date: 2017-05-12 13:27:38

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith BKG-8
Site Name Smith CCR
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 43 ft

Pump placement from TOC 36 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41 ft
Screen Length 10 ft
Depth to Water 21.88 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.87 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	13:06:21	1500.02	23.87	6.66	10337.22	1.39	22.72	0.11	-302.03
Last 5	13:11:21	1800.02	24.10	6.66	10392.12	1.51	22.72	0.10	-303.66
Last 5	13:16:21	2100.02	23.83	6.66	10345.31	2.06	22.72	0.11	-303.23
Last 5	13:21:21	2400.02	23.71	6.66	10384.67	1.98	22.72	0.11	-303.22
Last 5	13:26:21	2700.02	23.90	6.66	10410.87	0.81	22.72	0.10	-304.05
Variance 0			-0.28	0.01	-46.81			0.00	0.43
Variance 1			-0.12	-0.00	39.37			0.01	0.01
Variance 2			0.20	-0.00	26.19			-0.01	-0.84

Notes

Sample@1327, Partly Cloudy 80

Grab Samples

**LABORATORY ANALYTICAL
IBACKGROUND SAMPLING EVENT
FEBRUARY 2016 - MAY 2017**

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: 400-126524-2

Client Project/Site: CCR Smith Plant

For:

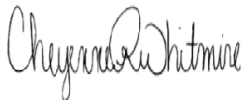
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

10/17/2016 4:44:21 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Job ID: 400-126524-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-126524-2

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch: 160-270307: Insufficient volume was available to perform sample duplicate (DUP) for the following samples: MW-02 (400-126524-1), MW-03 (400-126524-2), MW-06 (400-126524-3), MW-07 (400-126524-4), MW-08 (400-126524-5), MW-09 (400-126524-6), MW-10 (400-126524-7), MW-11 (400-126524-8), MW-12 (400-126524-9), MW-13 (400-126524-10), MW-14 (400-126524-11), FB-01 (400-126524-12), EB-01 (400-126524-13), DUP-01 (400-126524-14), FB-02 (400-126524-15), EB-02 (400-126524-16) and DUP-02 (400-126524-17).A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep_0: Radium-228 Prep Batch: 160-270307: The following samples were prepared at a reduced aliquot due to sediment in sample. MW-03 (400-126524-2).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: 160-270303: Insufficient sample volume was available to perform sample duplicate (DUP) for the following samples:MW-02 (400-126524-1), MW-03 (400-126524-2), MW-06 (400-126524-3), MW-07 (400-126524-4), MW-08 (400-126524-5), MW-09 (400-126524-6), MW-10 (400-126524-7), MW-11 (400-126524-8), MW-12 (400-126524-9), MW-13 (400-126524-10), MW-14 (400-126524-11), FB-01 (400-126524-12), EB-01 (400-126524-13), DUP-01 (400-126524-14), FB-02 (400-126524-15), EB-02 (400-126524-16) and DUP-02 (400-126524-17).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: 160-270303: The following samples were prepared at a reduced aliquot due to sediment in sample. MW-03 (400-126524-2).A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-126524-1	MW-02	Water	08/29/16 10:01	08/30/16 16:08
400-126524-2	MW-03	Water	08/29/16 13:17	08/30/16 16:08
400-126524-3	MW-06	Water	08/29/16 15:55	08/30/16 16:08
400-126524-4	MW-07	Water	08/29/16 15:12	08/30/16 16:08
400-126524-5	MW-08	Water	08/29/16 14:41	08/30/16 16:08
400-126524-6	MW-09	Water	08/30/16 07:17	08/30/16 16:08
400-126524-7	MW-10	Water	08/30/16 08:22	08/30/16 16:08
400-126524-8	MW-11	Water	08/30/16 09:48	08/30/16 16:08
400-126524-9	MW-12	Water	08/29/16 10:31	08/30/16 16:08
400-126524-10	MW-13	Water	08/29/16 12:07	08/30/16 16:08
400-126524-11	MW-14	Water	08/29/16 16:16	08/30/16 16:08
400-126524-12	FB-01	Water	08/29/16 15:18	08/30/16 16:08
400-126524-13	EB-01	Water	08/29/16 14:05	08/30/16 16:08
400-126524-14	DUP-01	Water	08/29/16 13:41	08/30/16 16:08
400-126524-15	FB-02	Water	08/30/16 09:55	08/30/16 16:08
400-126524-16	EB-02	Water	08/30/16 10:05	08/30/16 16:08
400-126524-17	DUP-02	Water	08/30/16 06:17	08/30/16 16:08

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-02
Date Collected: 08/29/16 10:01
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-1
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	2.93		0.258	0.369	1.00	0.121	pCi/L	09/16/16 14:26	10/10/16 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					09/16/16 14:26	10/10/16 07:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.268	U	0.259	0.260	1.00	0.418	pCi/L	09/16/16 15:01	10/04/16 16:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					09/16/16 15:01	10/04/16 16:26	1
Y Carrier	84.5		40 - 110					09/16/16 15:01	10/04/16 16:26	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.20		0.366	0.452	5.00	0.418	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-03
Date Collected: 08/29/16 13:17
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-2
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	1.36		0.259	0.286	1.00	0.213	pCi/L	09/16/16 14:26	10/10/16 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					09/16/16 14:26	10/10/16 07:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.331	U	0.452	0.453	1.00	0.755	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	84.1		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.69		0.521	0.536	5.00	0.755	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-06

Lab Sample ID: 400-126524-3

Date Collected: 08/29/16 15:55

Matrix: Water

Date Received: 08/30/16 16:08

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	9.38		0.440	0.952	1.00	0.114	pCi/L	09/16/16 14:26	10/10/16 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/16/16 14:26	10/10/16 07:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	9.57		0.752	1.16	1.00	0.450	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	81.5		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	18.9		0.871	1.50	5.00	0.450	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-07

Date Collected: 08/29/16 15:12

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-4

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	21.5		0.652	2.04	1.00	0.119	pCi/L	09/16/16 14:26	10/10/16 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					09/16/16 14:26	10/10/16 07:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.22		0.557	0.735	1.00	0.421	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	82.2		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	26.7		0.858	2.17	5.00	0.421	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-08
Date Collected: 08/29/16 14:41
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-5
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	16.1		0.565	1.56	1.00	0.0709	pCi/L	09/16/16 14:26	10/10/16 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					09/16/16 14:26	10/10/16 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	22.7		1.08	2.35	1.00	0.392	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	85.6		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	38.8		1.22	2.82	5.00	0.392	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-09
Date Collected: 08/30/16 07:17
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-6
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	13.3		0.510	1.30	1.00	0.0861	pCi/L	09/16/16 14:26	10/10/16 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					09/16/16 14:26	10/10/16 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	14.6		0.864	1.60	1.00	0.410	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	83.7		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	27.9		1.00	2.06	5.00	0.410	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-10
Date Collected: 08/30/16 08:22
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-7
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	6.14		0.334	0.646	1.00	0.101	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	17.8		0.941	1.89	1.00	0.442	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	83.7		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	23.9		0.999	2.00	5.00	0.442	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-11

Date Collected: 08/30/16 09:48

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-8

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	22.3		0.640	2.11	1.00	0.100	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	8.08		0.666	0.999	1.00	0.384	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	78.1		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	30.4		0.924	2.33	5.00	0.384	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-12

Date Collected: 08/29/16 10:31

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-9

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	2.15		0.212	0.287	1.00	0.110	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.300	U	0.358	0.359	1.00	0.591	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	80.4		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.45		0.416	0.459	5.00	0.591	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-13
Date Collected: 08/29/16 12:07
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-10
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	9.94		0.439	0.997	1.00	0.0779	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	10.1		0.794	1.22	1.00	0.575	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	81.9		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	20.0		0.907	1.58	5.00	0.575	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-14
Date Collected: 08/29/16 16:16
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-11
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	3.65		0.274	0.428	1.00	0.0914	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.29		0.598	0.771	1.00	0.506	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	83.4		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	8.93		0.658	0.881	5.00	0.506	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: FB-01
Date Collected: 08/29/16 15:18
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-12
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	0.0807	U	0.0599	0.0603	1.00	0.0878	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.171	U	0.303	0.303	1.00	0.513	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	81.9		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.252	U	0.309	0.309	5.00	0.513	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: EB-01
Date Collected: 08/29/16 14:05
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-13
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	0.00409	U	0.0536	0.0536	1.00	0.102	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.573		0.349	0.353	1.00	0.540	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	86.0		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.577		0.353	0.357	5.00	0.540	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: DUP-01

Date Collected: 08/29/16 13:41

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-14

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	15.5		0.548	1.50	1.00	0.0725	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	27.2		1.20	2.77	1.00	0.465	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	82.6		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	42.7		1.32	3.15	5.00	0.465	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: FB-02
Date Collected: 08/30/16 09:55
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-15
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0603	U	0.0527	0.0529	1.00	0.0808	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.399	U	0.281	0.283	1.00	0.438	pCi/L	09/16/16 15:01	10/04/16 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					09/16/16 15:01	10/04/16 16:22	1
Y Carrier	82.2		40 - 110					09/16/16 15:01	10/04/16 16:22	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	0.459		0.286	0.288	5.00	0.438	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: EB-02
Date Collected: 08/30/16 10:05
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-16
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0865	U	0.0648	0.0653	1.00	0.0971	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.292	U	0.316	0.317	1.00	0.517	pCi/L	09/16/16 15:01	10/04/16 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					09/16/16 15:01	10/04/16 16:22	1
Y Carrier	81.1		40 - 110					09/16/16 15:01	10/04/16 16:22	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	0.378	U	0.322	0.323	5.00	0.517	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: DUP-02

Date Collected: 08/30/16 06:17

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-17

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	13.9		0.509	1.35	1.00	0.0723	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	15.4		1.01	1.74	1.00	0.591	pCi/L	09/16/16 15:01	10/04/16 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/16/16 15:01	10/04/16 16:22	1
Y Carrier	67.7		40 - 110					09/16/16 15:01	10/04/16 16:22	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	29.3		1.13	2.20	5.00	0.591	pCi/L		10/11/16 08:41	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-02

Date Collected: 08/29/16 10:01

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:26	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-03

Date Collected: 08/29/16 13:17

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-06

Date Collected: 08/29/16 15:55

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-07

Date Collected: 08/29/16 15:12

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-08

Date Collected: 08/29/16 14:41

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:22	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-09

Date Collected: 08/30/16 07:17

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:22	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-10

Date Collected: 08/30/16 08:22

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-11

Date Collected: 08/30/16 09:48

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-12

Date Collected: 08/29/16 10:31

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-13

Date Collected: 08/29/16 12:07

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-14

Date Collected: 08/29/16 16:16

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: FB-01

Date Collected: 08/29/16 15:18

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: EB-01

Lab Sample ID: 400-126524-13

Date Collected: 08/29/16 14:05

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: DUP-01

Lab Sample ID: 400-126524-14

Date Collected: 08/29/16 13:41

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: FB-02

Lab Sample ID: 400-126524-15

Date Collected: 08/30/16 09:55

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: EB-02

Lab Sample ID: 400-126524-16

Date Collected: 08/30/16 10:05

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: DUP-02

Lab Sample ID: 400-126524-17

Date Collected: 08/30/16 06:17

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Rad

Prep Batch: 270303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	PrecSep-21	
400-126524-2	MW-03	Total/NA	Water	PrecSep-21	
400-126524-3	MW-06	Total/NA	Water	PrecSep-21	
400-126524-4	MW-07	Total/NA	Water	PrecSep-21	
400-126524-5	MW-08	Total/NA	Water	PrecSep-21	
400-126524-6	MW-09	Total/NA	Water	PrecSep-21	
400-126524-7	MW-10	Total/NA	Water	PrecSep-21	
400-126524-8	MW-11	Total/NA	Water	PrecSep-21	
400-126524-9	MW-12	Total/NA	Water	PrecSep-21	
400-126524-10	MW-13	Total/NA	Water	PrecSep-21	
400-126524-11	MW-14	Total/NA	Water	PrecSep-21	
400-126524-12	FB-01	Total/NA	Water	PrecSep-21	
400-126524-13	EB-01	Total/NA	Water	PrecSep-21	
400-126524-14	DUP-01	Total/NA	Water	PrecSep-21	
400-126524-15	FB-02	Total/NA	Water	PrecSep-21	
400-126524-16	EB-02	Total/NA	Water	PrecSep-21	
400-126524-17	DUP-02	Total/NA	Water	PrecSep-21	
MB 160-270303/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-270303/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-270303/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 270307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	PrecSep_0	
400-126524-2	MW-03	Total/NA	Water	PrecSep_0	
400-126524-3	MW-06	Total/NA	Water	PrecSep_0	
400-126524-4	MW-07	Total/NA	Water	PrecSep_0	
400-126524-5	MW-08	Total/NA	Water	PrecSep_0	
400-126524-6	MW-09	Total/NA	Water	PrecSep_0	
400-126524-7	MW-10	Total/NA	Water	PrecSep_0	
400-126524-8	MW-11	Total/NA	Water	PrecSep_0	
400-126524-9	MW-12	Total/NA	Water	PrecSep_0	
400-126524-10	MW-13	Total/NA	Water	PrecSep_0	
400-126524-11	MW-14	Total/NA	Water	PrecSep_0	
400-126524-12	FB-01	Total/NA	Water	PrecSep_0	
400-126524-13	EB-01	Total/NA	Water	PrecSep_0	
400-126524-14	DUP-01	Total/NA	Water	PrecSep_0	
400-126524-15	FB-02	Total/NA	Water	PrecSep_0	
400-126524-16	EB-02	Total/NA	Water	PrecSep_0	
400-126524-17	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-270307/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-270307/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-270307/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-270303/1-A
Matrix: Water
Analysis Batch: 273710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270303

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1667		0.0686	0.0703	1.00	0.0769	pCi/L	09/16/16 14:26	10/10/16 07:18	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					09/16/16 14:26	10/10/16 07:18	1

Lab Sample ID: LCS 160-270303/2-A
Matrix: Water
Analysis Batch: 273803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270303

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	13.47		1.32	1.00	0.0936	pCi/L	121	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	93.7		40 - 110						

Lab Sample ID: LCSD 160-270303/3-A
Matrix: Water
Analysis Batch: 273803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270303

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.1	14.28		1.39	1.00	0.0764	pCi/L	129	68 - 137	0.30	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	95.7		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-270307/1-A
Matrix: Water
Analysis Batch: 273103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270307

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1428	U	0.235	0.235	1.00	0.398	pCi/L	09/16/16 15:01	10/04/16 16:26	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					09/16/16 15:01	10/04/16 16:26	1
Y Carrier	78.9		40 - 110					09/16/16 15:01	10/04/16 16:26	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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

Lab Sample ID: LCS 160-270307/2-A
Matrix: Water
Analysis Batch: 273103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270307

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.5	15.92		1.73	1.00	0.478	pCi/L	110	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.7		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: LCSD 160-270307/3-A
Matrix: Water
Analysis Batch: 273103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270307

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.5	16.50		1.77	1.00	0.408	pCi/L	114	56 - 140	0.17	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	95.7		40 - 110
Y Carrier	81.5		40 - 110

Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s): 400-53432-23665.1											
Client Contact: Kristi Mitchell		Phone: 850 380 3458		Page: 1 of 2											
Company: Gulf Power Company		E-Mail: cheyenne.whitmire@testamericainc.com		Job #:											
Address: BIN 731 One Energy Place		Due Date Requested:		Preservation Codes:											
City: Pensacola		TAT Requested (days):		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:											
State: FL, 32520		PO #:		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)											
Phone: 850-444-6427(Tel)		Purchase Order not required		Total Number of Containers											
Email: krmitch@southernco.com		WO #:		Analysis Requested											
Project Name: CCR Smith Plant		Project #: 40006609		400-126524 COC											
Site:		SSOW #:		Field Sampling - Field Sampling Parameters											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9316_Ra226_9320_Ra228_Ra228Ra228_GFP	54600_Cl_E - Chloride, 54600_SO4_F - Sulfate, 26400 -	5020 - Sb,As,Fe,B,Be,Ca,Cd,Cr,Cu,Pb,Li,Mn,Se,Tl,7470A - Mercury	D	N	D	N	Special Instructions/Note:
MW-02		8/29/16	1001	G	Water			X	X	X					
MW-03		8/29/16	1317		Water										
MW-06		8/29/16	1555		Water										
MW-07		8/29/16	1512		Water										
MW-08		8/29/16	1441		Water										
MW-09		9/30/16	0717		Water										
MW-10		8/30/16	0822		Water										
MW-11		8/30/16	0948		Water										
MW-12		8/29/16	1031		Water										
MW-13		8/29/16	1207		Water										
MW-14		8/29/16	1616	G	Water			X	X	X					
Possible Hazard Identification		Date: 8/30/16 1608		Company: RDNH		Time: 12:00		Special Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:		Method of Shipment:		Company: TA	
<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		Date: 8/30/16 1608		Company: Company		Time: 16:08		<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:		Company: Company	
Deliverable Requested: I, II, III, IV, Other (specify)		Date: 8/30/16 1608		Company: Company		Time: 16:08		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Method of Shipment:		Company: Company	
Empty Kit Relinquished by: <i>Kristi Mitchell</i>		Date: 8/30/16 1608		Company: Company		Time: 16:08		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Method of Shipment:		Company: Company	
Relinquished by: <i>Kristi Mitchell</i>		Date: 8/30/16 1608		Company: Company		Time: 16:08		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Method of Shipment:		Company: Company	
Relinquished by:		Date: 8/30/16 1608		Company: Company		Time: 16:08		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Method of Shipment:		Company: Company	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Date: 8/30/16 1608		Company: Company		Time: 16:08		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Method of Shipment:		Company: Company	
Custody Seal No.:		Date: 8/30/16 1608		Company: Company		Time: 16:08		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Method of Shipment:		Company: Company	



Chain of Custody Record

Client Information Client Contact: Kristi Mitchell Company: Gulf Power Company Address: BIN 731 One Energy Place City: Pensacola State, Zip: FL, 32520 Phone: 850-444-6427(Tel) Email: kmitch@southernco.com Project Name: CCR Smith Plant Site:		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-53432-23665.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Analysis Requested Field Sampling - Field Sampling Parameters Mercury 6020 - Sb,As,Ba,B,Be,Ca,Cd,Cr,Cu,Pb,Li,Mo,Se,Ti,7470A - 5M4500 Cl, E - Chloride, 5M4500 SO4 E - Sulfate, 2540C - 9315_Ra226, 9320_Ra228, Ra228Ra228_GFPc Total Dissolved Solids, 4500 F, C - Fluoride Total Number of Containers	
Field Filtered Sample (Yes or No) Field Form 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, A=air) Preservation Codes (BT=Trace, A=Air)		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	
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)		Method of Shipment: Date/Time: 8/30/16 1608 Received by: [Signature] Company: [Company Name]	
Empty Kit Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by:		Date/Time: 8/30/16 1608 Received by: [Signature] Company: [Company Name]	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-126524-2

Login Number: 126524

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.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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.

TestAmerica Pensacola

Certification Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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	T104704193-16-10	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 Pensacola

TestAmerica

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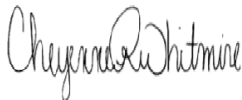
ANALYTICAL REPORT

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

TestAmerica Job ID: 400-120841-1
Client Project/Site: CCR Smith Plant

For:
Gulf Power Company
BIN 731
One Energy Place
Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:
5/31/2016 5:33:27 PM

Cheyenne Whitmire, Project Manager II
(850)474-1001
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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Job ID: 400-120841-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-120841-1

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-248820: The following samples were prepared at a reduced aliquot due to cloudiness and discoloration: MW-7 (400-120841-4), MW-11 (400-120841-6) and DUP-02 (400-120841-11).

Method(s) PrecSep-21: Radium-226 Prep Batch 160-248815: The following samples were prepared at a reduced aliquot due to cloudiness and discoloration: MW-7 (400-120841-4), MW-11 (400-120841-6) and DUP-02 (400-120841-11).

Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 303681 and 303850 and analytical batch 304205 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 method blank for preparation batch 303681 and analytical batch 304205 contained Barium 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) 6020: The following samples were diluted due to the nature of the sample matrix: MW-6 (400-120841-3), MW-7 (400-120841-4), MW-10 (400-120841-5), MW-11 (400-120841-6), MW-12 (400-120841-7) and DUP-02 (400-120841-11). Elevated reporting limits (RLs) are provided.

General Chemistry

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 303755 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 304141 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.

Comments

Method(s) 2540C: This analysis was not requested on original coc. Client resampled and these were added to the report.

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-2

Lab Sample ID: 400-120841-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - DL	0.035		0.013	0.0025	mg/L	25		6020	Total Recoverable
Calcium - DL	11		1.3	0.63	mg/L	25		6020	Total Recoverable
Boron - RA	0.022	I	0.050	0.021	mg/L	5		6020	Total Recoverable
Chromium - RA	0.0012	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Selenium - RA	0.00038	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Chloride	18		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	6.1		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	5.65				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-120841-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - DL	0.021		0.013	0.0025	mg/L	25		6020	Total Recoverable
Calcium - DL	1.8		1.3	0.63	mg/L	25		6020	Total Recoverable
Chromium - RA	0.0033		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium - RA	0.013		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Chloride	10		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	1.4	I	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	5.00				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-120841-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - DL	0.076		0.013	0.0025	mg/L	25		6020	Total Recoverable
Beryllium - DL	0.0017	I	0.013	0.0017	mg/L	25		6020	Total Recoverable
Lithium - DL	0.019	I	0.025	0.016	mg/L	25		6020	Total Recoverable
Boron - DL2	8.8		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL2	440		5.0	2.5	mg/L	100		6020	Total Recoverable
Chloride	4200		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Fluoride	0.050	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	780		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	4.68				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-120841-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - DL	0.059		0.013	0.0025	mg/L	25		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 400-120841-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	2.4		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	220		1.3	0.63	mg/L	25		6020	Total Recoverable
Chloride	1600		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	570		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.36				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-120841-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - DL	0.12		0.013	0.0025	mg/L	25		6020	Total Recoverable
Boron - DL2	10		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL2	600		5.0	2.5	mg/L	100		6020	Total Recoverable
Chloride	3300		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1000		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.24				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-120841-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic - DL	0.024		0.0063	0.0023	mg/L	25		6020	Total Recoverable
Barium - DL	0.14		0.013	0.0025	mg/L	25		6020	Total Recoverable
Boron - DL	4.0		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	170		1.3	0.63	mg/L	25		6020	Total Recoverable
Molybdenum - DL	0.0098	I	0.075	0.0043	mg/L	25		6020	Total Recoverable
Chloride	3000		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Sulfate	390		250	70	mg/L	50		SM 4500 SO4 E	Total/NA
Field pH	6.27				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-120841-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - DL	0.017		0.013	0.0025	mg/L	25		6020	Total Recoverable
Boron - DL	0.27		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	33		1.3	0.63	mg/L	25		6020	Total Recoverable
Lithium - DL	0.025		0.025	0.016	mg/L	25		6020	Total Recoverable
Chloride	190		20	6.0	mg/L	10		SM 4500 Cl- E	Total/NA
Fluoride	0.080	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	5.99				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: FB-01

Lab Sample ID: 400-120841-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.00069	I V	0.0025	0.00049	mg/L	5		6020	Total Recoverable

Client Sample ID: EB-01

Lab Sample ID: 400-120841-9

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-120841-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.032		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.042	I	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	10		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium	0.0041	I	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Chloride	18		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	5.6		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	5.65				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 400-120841-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - DL	0.14		0.013	0.0025	mg/L	25		6020	Total Recoverable
Boron - DL	4.1		0.25	0.11	mg/L	25		6020	Total Recoverable
Arsenic - RADL	0.026		0.0063	0.0023	mg/L	25		6020	Total Recoverable
Calcium - RADL	180		1.3	0.63	mg/L	25		6020	Total Recoverable
Molybdenum - RADL	0.011	I	0.075	0.0043	mg/L	25		6020	Total Recoverable
Chloride	3000		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Sulfate	380		250	70	mg/L	50		SM 4500 SO4 E	Total/NA
Field pH	6.27				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-2

Lab Sample ID: 400-120841-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	200		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Field pH	6.64				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-120841-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Field pH	5.12				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-6

Lab Sample ID: 400-120841-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	7500		25	17	mg/L	1		SM 2540C	Total/NA
Field pH	4.93				SU		1	Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-120841-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	3700		13	8.5	mg/L	1		SM 2540C	Total/NA
Field pH	6.15				SU		1	Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-120841-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	6600		25	17	mg/L	1		SM 2540C	Total/NA
Field pH	5.48				SU		1	Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-120841-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	5700		17	11	mg/L	1		SM 2540C	Total/NA
Field pH	6.38				SU		1	Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-120841-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	410		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Field pH	5.92				SU		1	Field Sampling	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 400-120841-19

No Detections.

Client Sample ID: EB-01

Lab Sample ID: 400-120841-20

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-120841-21

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	200		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Field pH	6.64				SU		1	Field Sampling	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 400-120841-22

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	5900		17	11	mg/L	1		SM 2540C	Total/NA
Field pH	5.02				SU		1	Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-120841-1	MW-2	Water	04/25/16 15:25	04/27/16 08:33
400-120841-2	MW-3	Water	04/25/16 16:45	04/27/16 08:33
400-120841-3	MW-6	Water	04/26/16 10:45	04/27/16 08:33
400-120841-4	MW-7	Water	04/26/16 12:25	04/27/16 08:33
400-120841-5	MW-10	Water	04/26/16 15:40	04/27/16 08:33
400-120841-6	MW-11	Water	04/26/16 14:25	04/27/16 08:33
400-120841-7	MW-12	Water	04/26/16 08:45	04/27/16 08:33
400-120841-8	FB-01	Water	04/26/16 07:53	04/27/16 08:33
400-120841-9	EB-01	Water	04/26/16 12:40	04/27/16 08:33
400-120841-10	DUP-01	Water	04/25/16 14:25	04/27/16 08:33
400-120841-11	DUP-02	Water	04/26/16 13:25	04/27/16 08:33
400-120841-12	MW-2	Water	05/11/16 10:24	05/12/16 12:00
400-120841-13	MW-3	Water	05/11/16 11:27	05/12/16 12:00
400-120841-14	MW-6	Water	05/11/16 12:27	05/12/16 12:00
400-120841-15	MW-7	Water	05/11/16 13:52	05/12/16 12:00
400-120841-16	MW-10	Water	05/11/16 15:56	05/12/16 12:00
400-120841-17	MW-11	Water	05/11/16 15:14	05/12/16 12:00
400-120841-18	MW-12	Water	05/11/16 12:40	05/12/16 12:00
400-120841-19	FB-01	Water	05/11/16 15:25	05/12/16 12:00
400-120841-20	EB-01	Water	05/11/16 12:50	05/12/16 12:00
400-120841-21	DUP-01	Water	05/11/16 09:24	05/12/16 12:00
400-120841-22	DUP-02	Water	05/12/16 06:29	05/12/16 12:00

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-2
Date Collected: 04/25/16 15:25
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.035		0.013	0.0025	mg/L		04/28/16 08:05	04/29/16 14:52	25
Calcium	11		1.3	0.63	mg/L		04/28/16 08:05	04/29/16 14:52	25

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/28/16 08:05	05/06/16 13:55	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/28/16 08:05	05/06/16 13:55	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	05/06/16 13:55	5
Boron	0.022	I	0.050	0.021	mg/L		04/28/16 08:05	05/06/16 13:55	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	05/06/16 13:55	5
Chromium	0.0012	I	0.0025	0.0011	mg/L		04/28/16 08:05	05/06/16 13:55	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/28/16 08:05	05/06/16 13:55	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/28/16 08:05	05/06/16 13:55	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/28/16 08:05	05/06/16 13:55	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/28/16 08:05	05/06/16 13:55	5
Selenium	0.00038	I	0.0013	0.00024	mg/L		04/28/16 08:05	05/06/16 13:55	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/28/16 08:05	05/06/16 13:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 12:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		2.0	0.60	mg/L			04/28/16 16:19	1
Fluoride	0.040	I	0.10	0.032	mg/L			05/09/16 18:09	1
Sulfate	6.1		5.0	1.4	mg/L			04/27/16 16:43	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.47		0.225	0.385	1.00	0.0675	pCi/L	05/02/16 14:02	05/24/16 07:23	1
Carrier	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Ba Carrier	94.0		40 - 110				05/02/16 14:02	05/24/16 07:23	1	

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.225	U	0.218	0.219	1.00	0.353	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Ba Carrier	94.0		40 - 110				05/02/16 15:11	05/10/16 12:29	1	
Y Carrier	84.9		40 - 110				05/02/16 15:11	05/10/16 12:29	1	

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-2

Lab Sample ID: 400-120841-1

Date Collected: 04/25/16 15:25

Matrix: Water

Date Received: 04/27/16 08:33

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	3.70		0.313	0.443	5.00	0.353	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.65				SU			04/25/16 15:25	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-3
Date Collected: 04/25/16 16:45
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.021		0.013	0.0025	mg/L		04/28/16 08:05	04/29/16 14:57	25
Calcium	1.8		1.3	0.63	mg/L		04/28/16 08:05	04/29/16 14:57	25

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/28/16 08:05	05/06/16 13:59	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/28/16 08:05	05/06/16 13:59	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	05/06/16 13:59	5
Boron	0.021	U	0.050	0.021	mg/L		04/28/16 08:05	05/06/16 13:59	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	05/06/16 13:59	5
Chromium	0.0033		0.0025	0.0011	mg/L		04/28/16 08:05	05/06/16 13:59	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/28/16 08:05	05/06/16 13:59	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/28/16 08:05	05/06/16 13:59	5
Lithium	0.013		0.0050	0.0032	mg/L		04/28/16 08:05	05/06/16 13:59	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/28/16 08:05	05/06/16 13:59	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/28/16 08:05	05/06/16 13:59	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/28/16 08:05	05/06/16 13:59	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:13	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		2.0	0.60	mg/L			04/28/16 16:19	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/09/16 18:12	1
Sulfate	1.4	I	5.0	1.4	mg/L			04/27/16 16:43	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.20		0.143	0.180	1.00	0.0820	pCi/L	05/02/16 14:02	05/24/16 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					05/02/16 14:02	05/24/16 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.509		0.307	0.311	1.00	0.472	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	87.5		40 - 110					05/02/16 15:11	05/10/16 12:29	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-3

Lab Sample ID: 400-120841-2

Date Collected: 04/25/16 16:45

Matrix: Water

Date Received: 04/27/16 08:33

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	1.71		0.339	0.359	5.00	0.472	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.00				SU			04/25/16 16:45	1

- 1
- 2
- 3
- 4
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- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-6
Date Collected: 04/26/16 10:45
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/28/16 08:05	04/29/16 15:02	25
Arsenic	0.0023	U	0.0063	0.0023	mg/L		04/28/16 08:05	04/29/16 15:02	25
Barium	0.076		0.013	0.0025	mg/L		04/28/16 08:05	04/29/16 15:02	25
Beryllium	0.0017	I	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:02	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:02	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/28/16 08:05	04/29/16 15:02	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/28/16 08:05	04/29/16 15:02	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/28/16 08:05	04/29/16 15:02	25
Lithium	0.019	I	0.025	0.016	mg/L		04/28/16 08:05	04/29/16 15:02	25
Molybdenum	0.0043	U	0.075	0.0043	mg/L		04/28/16 08:05	04/29/16 15:02	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/28/16 08:05	04/29/16 15:02	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/28/16 08:05	04/29/16 15:02	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	8.8		1.0	0.42	mg/L		04/28/16 08:05	05/06/16 14:08	100
Calcium	440		5.0	2.5	mg/L		04/28/16 08:05	05/06/16 14:08	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4200		240	72	mg/L			04/28/16 16:56	120
Fluoride	0.050	I	0.10	0.032	mg/L			05/09/16 18:15	1
Sulfate	780		500	140	mg/L			04/27/16 17:06	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	15.0		0.482	1.43	1.00	0.0655	pCi/L	05/02/16 14:02	05/24/16 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					05/02/16 14:02	05/24/16 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	24.3		1.10	2.49	1.00	0.387	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	82.6		40 - 110					05/02/16 15:11	05/10/16 12:29	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-6

Lab Sample ID: 400-120841-3

Date Collected: 04/26/16 10:45

Matrix: Water

Date Received: 04/27/16 08:33

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	39.3		1.20	2.88	5.00	0.387	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.68				SU			04/26/16 10:45	1

- 1
- 2
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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-7
Date Collected: 04/26/16 12:25
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-4
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/28/16 08:05	04/29/16 15:06	25
Arsenic	0.0023	U	0.0063	0.0023	mg/L		04/28/16 08:05	04/29/16 15:06	25
Barium	0.059		0.013	0.0025	mg/L		04/28/16 08:05	04/29/16 15:06	25
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:06	25
Boron	2.4		0.25	0.11	mg/L		04/28/16 08:05	04/29/16 15:06	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:06	25
Calcium	220		1.3	0.63	mg/L		04/28/16 08:05	04/29/16 15:06	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/28/16 08:05	04/29/16 15:06	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/28/16 08:05	04/29/16 15:06	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/28/16 08:05	04/29/16 15:06	25
Lithium	0.016	U	0.025	0.016	mg/L		04/28/16 08:05	04/29/16 15:06	25
Molybdenum	0.0043	U	0.075	0.0043	mg/L		04/28/16 08:05	04/29/16 15:06	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/28/16 08:05	04/29/16 15:06	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/28/16 08:05	04/29/16 15:06	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:15	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1600		100	30	mg/L			04/28/16 16:48	50
Fluoride	0.040	I	0.10	0.032	mg/L			05/17/16 15:51	1
Sulfate	570		500	140	mg/L			04/27/16 17:06	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	21.0		0.815	2.06	1.00	0.125	pCi/L	05/02/16 14:02	05/24/16 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					05/02/16 14:02	05/24/16 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.35		0.797	0.892	1.00	0.822	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	83.0		40 - 110					05/02/16 15:11	05/10/16 12:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	25.4		1.14	2.24	5.00	0.822	pCi/L		05/24/16 20:40	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-7
Date Collected: 04/26/16 12:25
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-4
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.36				SU			04/26/16 12:25	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-10
Date Collected: 04/26/16 15:40
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/28/16 08:05	04/29/16 15:11	25
Arsenic	0.0023	U	0.0063	0.0023	mg/L		04/28/16 08:05	04/29/16 15:11	25
Barium	0.12		0.013	0.0025	mg/L		04/28/16 08:05	04/29/16 15:11	25
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:11	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:11	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/28/16 08:05	04/29/16 15:11	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/28/16 08:05	04/29/16 15:11	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/28/16 08:05	04/29/16 15:11	25
Lithium	0.016	U	0.025	0.016	mg/L		04/28/16 08:05	04/29/16 15:11	25
Molybdenum	0.0043	U	0.075	0.0043	mg/L		04/28/16 08:05	04/29/16 15:11	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/28/16 08:05	04/29/16 15:11	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/28/16 08:05	04/29/16 15:11	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10		1.0	0.42	mg/L		04/28/16 08:05	04/29/16 15:29	100
Calcium	600		5.0	2.5	mg/L		04/28/16 08:05	04/29/16 15:29	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:16	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3300		240	72	mg/L			04/28/16 16:56	120
Fluoride	0.040	I	0.10	0.032	mg/L			05/17/16 15:59	1
Sulfate	1000		500	140	mg/L			04/27/16 17:10	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	6.57		0.315	0.670	1.00	0.0596	pCi/L	05/02/16 14:02	05/24/16 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					05/02/16 14:02	05/24/16 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	18.6		0.924	1.95	1.00	0.364	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	86.4		40 - 110					05/02/16 15:11	05/10/16 12:29	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-10
Date Collected: 04/26/16 15:40
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-5
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	25.2		0.976	2.06	5.00	0.364	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.24				SU			04/26/16 15:40	1

- 1
- 2
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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-11

Date Collected: 04/26/16 14:25

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-6

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/28/16 08:05	04/29/16 15:15	25
Arsenic	0.024		0.0063	0.0023	mg/L		04/28/16 08:05	04/29/16 15:15	25
Barium	0.14		0.013	0.0025	mg/L		04/28/16 08:05	04/29/16 15:15	25
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:15	25
Boron	4.0		0.25	0.11	mg/L		04/28/16 08:05	04/29/16 15:15	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:15	25
Calcium	170		1.3	0.63	mg/L		04/28/16 08:05	04/29/16 15:15	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/28/16 08:05	04/29/16 15:15	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/28/16 08:05	04/29/16 15:15	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/28/16 08:05	04/29/16 15:15	25
Lithium	0.016	U	0.025	0.016	mg/L		04/28/16 08:05	04/29/16 15:15	25
Molybdenum	0.0098	I	0.075	0.0043	mg/L		04/28/16 08:05	04/29/16 15:15	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/28/16 08:05	04/29/16 15:15	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/28/16 08:05	04/29/16 15:15	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:17	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		240	72	mg/L			04/28/16 16:56	120
Fluoride	0.032	U	0.10	0.032	mg/L			05/17/16 16:01	1
Sulfate	390		250	70	mg/L			04/27/16 17:28	50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	27.8		0.918	2.66	1.00	0.138	pCi/L	05/02/16 14:02	05/24/16 07:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/02/16 14:02	05/24/16 07:24	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	10.9		1.04	1.44	1.00	0.744	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	87.9		40 - 110					05/02/16 15:11	05/10/16 12:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	38.6		1.39	3.03	5.00	0.744	pCi/L		05/24/16 20:40	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-11
Date Collected: 04/26/16 14:25
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-6
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.27				SU			04/26/16 14:25	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-12
Date Collected: 04/26/16 08:45
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-7
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/28/16 08:05	04/29/16 15:20	25
Arsenic	0.0023	U	0.0063	0.0023	mg/L		04/28/16 08:05	04/29/16 15:20	25
Barium	0.017		0.013	0.0025	mg/L		04/28/16 08:05	04/29/16 15:20	25
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:20	25
Boron	0.27		0.25	0.11	mg/L		04/28/16 08:05	04/29/16 15:20	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/28/16 08:05	04/29/16 15:20	25
Calcium	33		1.3	0.63	mg/L		04/28/16 08:05	04/29/16 15:20	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/28/16 08:05	04/29/16 15:20	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/28/16 08:05	04/29/16 15:20	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/28/16 08:05	04/29/16 15:20	25
Lithium	0.025		0.025	0.016	mg/L		04/28/16 08:05	04/29/16 15:20	25
Molybdenum	0.0043	U	0.075	0.0043	mg/L		04/28/16 08:05	04/29/16 15:20	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/28/16 08:05	04/29/16 15:20	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/28/16 08:05	04/29/16 15:20	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:19	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		20	6.0	mg/L			04/28/16 16:45	10
Fluoride	0.080	I	0.10	0.032	mg/L			05/17/16 16:03	1
Sulfate	1.4	U	5.0	1.4	mg/L			04/27/16 16:47	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.25		0.184	0.274	1.00	0.0521	pCi/L	05/02/16 14:02	05/24/16 07:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					05/02/16 14:02	05/24/16 07:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.402		0.256	0.259	1.00	0.392	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	84.9		40 - 110					05/02/16 15:11	05/10/16 12:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.65		0.316	0.377	5.00	0.392	pCi/L		05/24/16 20:40	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-12
Date Collected: 04/26/16 08:45
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-7
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.99				SU			04/26/16 08:45	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: FB-01
Date Collected: 04/26/16 07:53
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-8
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/28/16 08:05	04/29/16 14:34	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/28/16 08:05	04/29/16 14:34	5
Barium	0.00069	I V	0.0025	0.00049	mg/L		04/28/16 08:05	04/29/16 14:34	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	04/29/16 14:34	5
Boron	0.021	U	0.050	0.021	mg/L		04/28/16 08:05	04/29/16 14:34	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	04/29/16 14:34	5
Calcium	0.13	U	0.25	0.13	mg/L		04/28/16 08:05	04/29/16 14:34	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/28/16 08:05	04/29/16 14:34	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/28/16 08:05	04/29/16 14:34	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/28/16 08:05	04/29/16 14:34	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/28/16 08:05	04/29/16 14:34	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/28/16 08:05	04/29/16 14:34	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/28/16 08:05	04/29/16 14:34	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/28/16 08:05	04/29/16 14:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:20	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			04/28/16 16:22	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/17/16 16:05	1
Sulfate	1.4	U	5.0	1.4	mg/L			04/27/16 16:47	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0174	U	0.0319	0.0319	1.00	0.0564	pCi/L	05/02/16 14:02	05/24/16 07:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/02/16 14:02	05/24/16 07:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.368	U	0.276	0.279	1.00	0.437	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	85.6		40 - 110					05/02/16 15:11	05/10/16 12:29	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.386	U	0.278	0.280	5.00	0.437	pCi/L		05/24/16 20:40	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: EB-01
Date Collected: 04/26/16 12:40
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-9
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/29/16 08:15	04/29/16 16:06	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/29/16 08:15	04/29/16 16:06	5
Barium	0.00049	U	0.0025	0.00049	mg/L		04/29/16 08:15	04/29/16 16:06	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	04/29/16 16:06	5
Boron	0.021	U	0.050	0.021	mg/L		04/29/16 08:15	04/29/16 16:06	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	04/29/16 16:06	5
Calcium	0.13	U	0.25	0.13	mg/L		04/29/16 08:15	04/29/16 16:06	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/29/16 08:15	04/29/16 16:06	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/29/16 08:15	04/29/16 16:06	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/29/16 08:15	04/29/16 16:06	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/29/16 08:15	04/29/16 16:06	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/29/16 08:15	04/29/16 16:06	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/29/16 08:15	04/29/16 16:06	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/29/16 08:15	04/29/16 16:06	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			04/28/16 16:22	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/17/16 16:08	1
Sulfate	1.4	U	5.0	1.4	mg/L			04/27/16 16:47	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0300	U	0.0335	0.0336	1.00	0.0540	pCi/L	05/02/16 14:02	05/24/16 07:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.2		40 - 110					05/02/16 14:02	05/24/16 07:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.134	U	0.222	0.222	1.00	0.420	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	83.7		40 - 110					05/02/16 15:11	05/10/16 12:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.104	U	0.224	0.225	5.00	0.420	pCi/L		05/24/16 20:40	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: DUP-01

Lab Sample ID: 400-120841-10

Date Collected: 04/25/16 14:25

Matrix: Water

Date Received: 04/27/16 08:33

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/29/16 08:15	04/29/16 16:11	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/29/16 08:15	04/29/16 16:11	5
Barium	0.032		0.0025	0.00049	mg/L		04/29/16 08:15	04/29/16 16:11	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	04/29/16 16:11	5
Boron	0.042	I	0.050	0.021	mg/L		04/29/16 08:15	04/29/16 16:11	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	04/29/16 16:11	5
Calcium	10		0.25	0.13	mg/L		04/29/16 08:15	04/29/16 16:11	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/29/16 08:15	04/29/16 16:11	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/29/16 08:15	04/29/16 16:11	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/29/16 08:15	04/29/16 16:11	5
Lithium	0.0041	I	0.0050	0.0032	mg/L		04/29/16 08:15	04/29/16 16:11	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/29/16 08:15	04/29/16 16:11	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/29/16 08:15	04/29/16 16:11	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/29/16 08:15	04/29/16 16:11	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:22	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18		2.0	0.60	mg/L			04/28/16 16:22	1
Fluoride	0.040	I	0.10	0.032	mg/L			05/17/16 16:11	1
Sulfate	5.6		5.0	1.4	mg/L			04/27/16 16:47	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.33		0.225	0.374	1.00	0.0780	pCi/L	05/02/16 14:02	05/24/16 07:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					05/02/16 14:02	05/24/16 07:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.389		0.244	0.246	1.00	0.373	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	86.7		40 - 110					05/02/16 15:11	05/10/16 12:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.72		0.331	0.448	5.00	0.373	pCi/L		05/24/16 20:40	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: DUP-01
Date Collected: 04/25/16 14:25
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-10
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.65				SU			04/25/16 14:25	1

- 1
- 2
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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: DUP-02

Lab Sample ID: 400-120841-11

Date Collected: 04/26/16 13:25

Matrix: Water

Date Received: 04/27/16 08:33

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/29/16 08:15	04/29/16 16:24	25
Barium	0.14		0.013	0.0025	mg/L		04/29/16 08:15	04/29/16 16:24	25
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	04/29/16 16:24	25
Boron	4.1		0.25	0.11	mg/L		04/29/16 08:15	04/29/16 16:24	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	04/29/16 16:24	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/29/16 08:15	04/29/16 16:24	25
Lithium	0.016	U	0.025	0.016	mg/L		04/29/16 08:15	04/29/16 16:24	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/29/16 08:15	04/29/16 16:24	25

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026		0.0063	0.0023	mg/L		04/29/16 08:15	05/06/16 14:13	25
Calcium	180		1.3	0.63	mg/L		04/29/16 08:15	05/06/16 14:13	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/29/16 08:15	05/06/16 14:13	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/29/16 08:15	05/06/16 14:13	25
Molybdenum	0.011	I	0.075	0.0043	mg/L		04/29/16 08:15	05/06/16 14:13	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/29/16 08:15	05/06/16 14:13	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:40	04/29/16 13:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		240	72	mg/L			04/28/16 16:56	120
Fluoride	0.032	U	0.10	0.032	mg/L			05/17/16 16:13	1
Sulfate	380		250	70	mg/L			04/27/16 17:28	50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	26.8		0.896	2.57	1.00	0.100	pCi/L	05/02/16 14:02	05/24/16 07:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					05/02/16 14:02	05/24/16 07:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	9.00		0.950	1.26	1.00	0.716	pCi/L	05/02/16 15:11	05/10/16 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.2		40 - 110					05/02/16 15:11	05/10/16 12:29	1
Y Carrier	87.1		40 - 110					05/02/16 15:11	05/10/16 12:29	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: DUP-02
Date Collected: 04/26/16 13:25
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-11
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	35.8		1.31	2.87	5.00	0.716	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.27				SU			04/26/16 13:25	1

- 1
- 2
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- 13
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Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-2
Date Collected: 05/11/16 10:24
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-12
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			05/17/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.64				SU			05/11/16 10:24	1

- 1
- 2
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- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-3
Date Collected: 05/11/16 11:27
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-13
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			05/17/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.12				SU			05/11/16 11:27	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-6
Date Collected: 05/11/16 12:27
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-14
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7500		25	17	mg/L			05/17/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.93				SU			05/11/16 12:27	1

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-7
Date Collected: 05/11/16 13:52
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-15
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3700		13	8.5	mg/L			05/17/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.15				SU			05/11/16 13:52	1

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-10
Date Collected: 05/11/16 15:56
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-16
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6600		25	17	mg/L			05/17/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.48				SU			05/11/16 15:56	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-11
Date Collected: 05/11/16 15:14
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-17
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5700		17	11	mg/L			05/17/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.38				SU			05/11/16 15:14	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-12
Date Collected: 05/11/16 12:40
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-18
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410		5.0	3.4	mg/L			05/17/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.92				SU			05/11/16 12:40	1

- 1
- 2
- 3
- 4
- 5
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- 7
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- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: FB-01
Date Collected: 05/11/16 15:25
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-19
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/17/16 10:19	1

- 1
- 2
- 3
- 4
- 5
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- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: EB-01
Date Collected: 05/11/16 12:50
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-20
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/17/16 10:19	1

- 1
- 2
- 3
- 4
- 5
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- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: DUP-01
Date Collected: 05/11/16 09:24
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-21
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			05/17/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.64				SU			05/11/16 09:24	1

- 1
- 2
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- 4
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- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: DUP-02
Date Collected: 05/12/16 06:29
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-22
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5900		17	11	mg/L			05/17/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.02				SU			05/12/16 06:29	1

- 1
- 2
- 3
- 4
- 5
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- 7
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- 10
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- 12
- 13
- 14

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Qualifiers

Metals

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.

General Chemistry

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-2
Date Collected: 04/25/16 15:25
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 14:52	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	304963	05/06/16 13:55	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 12:59	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	303906	04/28/16 16:19	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	305300	05/09/16 18:09	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	303755	04/27/16 16:43	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:23	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/25/16 15:25	BWS	TAL PEN

Client Sample ID: MW-3
Date Collected: 04/25/16 16:45
Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 14:57	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	304963	05/06/16 13:59	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:13	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	303906	04/28/16 16:19	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	305300	05/09/16 18:12	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	303755	04/27/16 16:43	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/25/16 16:45	BWS	TAL PEN

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-6

Date Collected: 04/26/16 10:45

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 15:02	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL2		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	304963	05/06/16 14:08	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:14	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		120	303906	04/28/16 16:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	305300	05/09/16 18:15	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	303755	04/27/16 17:06	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/26/16 10:45	BWS	TAL PEN

Client Sample ID: MW-7

Date Collected: 04/26/16 12:25

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 15:06	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:15	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		50	303906	04/28/16 16:48	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 15:51	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	303755	04/27/16 17:06	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/26/16 12:25	BWS	TAL PEN

Client Sample ID: MW-10

Date Collected: 04/26/16 15:40

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 15:11	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-10

Date Collected: 04/26/16 15:40

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL2		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	304205	04/29/16 15:29	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:16	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		120	303906	04/28/16 16:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 15:59	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	303755	04/27/16 17:10	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/26/16 15:40	BWS	TAL PEN

Client Sample ID: MW-11

Date Collected: 04/26/16 14:25

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 15:15	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:17	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		120	303906	04/28/16 16:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:01	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		50	303755	04/27/16 17:28	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:24	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/26/16 14:25	BWS	TAL PEN

Client Sample ID: MW-12

Date Collected: 04/26/16 08:45

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 15:20	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:19	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-12

Date Collected: 04/26/16 08:45

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		10	303906	04/28/16 16:45	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:03	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	303755	04/27/16 16:47	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/26/16 08:45	BWS	TAL PEN

Client Sample ID: FB-01

Date Collected: 04/26/16 07:53

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			303681	04/28/16 08:05	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	304205	04/29/16 14:34	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:20	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	303906	04/28/16 16:22	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:05	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	303755	04/27/16 16:47	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL

Client Sample ID: EB-01

Date Collected: 04/26/16 12:40

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			303850	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	304205	04/29/16 16:06	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:21	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	303906	04/28/16 16:22	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:08	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	303755	04/27/16 16:47	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:25	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: EB-01

Date Collected: 04/26/16 12:40

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL

Client Sample ID: DUP-01

Date Collected: 04/25/16 14:25

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			303850	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	304205	04/29/16 16:11	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:22	JAP	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	303906	04/28/16 16:22	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:11	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	303755	04/27/16 16:47	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/25/16 14:25	BWS	TAL PEN

Client Sample ID: DUP-02

Date Collected: 04/26/16 13:25

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303850	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 16:24	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		303850	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	304963	05/06/16 14:13	RJB	TAL PEN
Total/NA	Prep	7470A			303786	04/28/16 09:40	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304067	04/29/16 13:23	JAP	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	303906	04/28/16 16:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:13	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		50	303755	04/27/16 17:28	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:29	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: DUP-02

Date Collected: 04/26/16 13:25

Date Received: 04/27/16 08:33

Lab Sample ID: 400-120841-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	305271	04/26/16 13:25	BWS	TAL PEN

Client Sample ID: MW-2

Date Collected: 05/11/16 10:24

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308084	05/11/16 10:24	MCS	TAL PEN

Client Sample ID: MW-3

Date Collected: 05/11/16 11:27

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308084	05/11/16 11:27	MCS	TAL PEN

Client Sample ID: MW-6

Date Collected: 05/11/16 12:27

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308084	05/11/16 12:27	MCS	TAL PEN

Client Sample ID: MW-7

Date Collected: 05/11/16 13:52

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308084	05/11/16 13:52	MCS	TAL PEN

Client Sample ID: MW-10

Date Collected: 05/11/16 15:56

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308084	05/11/16 15:56	MCS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Client Sample ID: MW-11

Date Collected: 05/11/16 15:14

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308084	05/11/16 15:14	MCS	TAL PEN

Client Sample ID: MW-12

Date Collected: 05/11/16 12:40

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308084	05/11/16 12:40	MCS	TAL PEN

Client Sample ID: FB-01

Date Collected: 05/11/16 15:25

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN

Client Sample ID: EB-01

Date Collected: 05/11/16 12:50

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN

Client Sample ID: DUP-01

Date Collected: 05/11/16 09:24

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308084	05/11/16 09:24	MCS	TAL PEN

Client Sample ID: DUP-02

Date Collected: 05/12/16 06:29

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120841-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306281	05/17/16 10:19	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308084	05/12/16 06:29	MCS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Metals

Prep Batch: 303681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120809-J-8-B MS ^5	Matrix Spike	Dissolved	Water	3005A	
400-120809-J-8-C MSD ^5	Matrix Spike Duplicate	Dissolved	Water	3005A	
400-120841-1 - RA	MW-2	Total Recoverable	Water	3005A	
400-120841-1 - DL	MW-2	Total Recoverable	Water	3005A	
400-120841-2 - DL	MW-3	Total Recoverable	Water	3005A	
400-120841-2 - RA	MW-3	Total Recoverable	Water	3005A	
400-120841-3 - DL2	MW-6	Total Recoverable	Water	3005A	
400-120841-3 - DL	MW-6	Total Recoverable	Water	3005A	
400-120841-4 - DL	MW-7	Total Recoverable	Water	3005A	
400-120841-5 - DL	MW-10	Total Recoverable	Water	3005A	
400-120841-5 - DL2	MW-10	Total Recoverable	Water	3005A	
400-120841-6 - DL	MW-11	Total Recoverable	Water	3005A	
400-120841-7 - DL	MW-12	Total Recoverable	Water	3005A	
400-120841-8	FB-01	Total Recoverable	Water	3005A	
LCS 400-303681/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
MB 400-303681/1-A ^5	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 303786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120768-A-3-B MS	Matrix Spike	Total/NA	Water	7470A	
400-120768-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	
400-120841-1	MW-2	Total/NA	Water	7470A	
400-120841-2	MW-3	Total/NA	Water	7470A	
400-120841-3	MW-6	Total/NA	Water	7470A	
400-120841-4	MW-7	Total/NA	Water	7470A	
400-120841-5	MW-10	Total/NA	Water	7470A	
400-120841-6	MW-11	Total/NA	Water	7470A	
400-120841-7	MW-12	Total/NA	Water	7470A	
400-120841-8	FB-01	Total/NA	Water	7470A	
400-120841-9	EB-01	Total/NA	Water	7470A	
400-120841-10	DUP-01	Total/NA	Water	7470A	
400-120841-11	DUP-02	Total/NA	Water	7470A	
LCS 400-303786/15-A	Lab Control Sample	Total/NA	Water	7470A	
MB 400-303786/14-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 303850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120809-K-8-B MS ^25 -	Matrix Spike	Total Recoverable	Water	3005A	
400-120809-K-8-C MSD ^25	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
400-120841-9	EB-01	Total Recoverable	Water	3005A	
400-120841-10	DUP-01	Total Recoverable	Water	3005A	
400-120841-11 - DL	DUP-02	Total Recoverable	Water	3005A	
400-120841-11 - RADL	DUP-02	Total Recoverable	Water	3005A	
LCS 400-303850/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
MB 400-303850/1-A ^5	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 304067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120768-A-3-B MS	Matrix Spike	Total/NA	Water	7470A	303786
400-120768-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	303786
400-120841-1	MW-2	Total/NA	Water	7470A	303786

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Metals (Continued)

Analysis Batch: 304067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-2	MW-3	Total/NA	Water	7470A	303786
400-120841-3	MW-6	Total/NA	Water	7470A	303786
400-120841-4	MW-7	Total/NA	Water	7470A	303786
400-120841-5	MW-10	Total/NA	Water	7470A	303786
400-120841-6	MW-11	Total/NA	Water	7470A	303786
400-120841-7	MW-12	Total/NA	Water	7470A	303786
400-120841-8	FB-01	Total/NA	Water	7470A	303786
400-120841-9	EB-01	Total/NA	Water	7470A	303786
400-120841-10	DUP-01	Total/NA	Water	7470A	303786
400-120841-11	DUP-02	Total/NA	Water	7470A	303786
LCS 400-303786/15-A	Lab Control Sample	Total/NA	Water	7470A	303786
MB 400-303786/14-A	Method Blank	Total/NA	Water	7470A	303786

Analysis Batch: 304205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120809-J-8-B MS ^5	Matrix Spike	Dissolved	Water	6020	303681
400-120809-J-8-C MSD ^5	Matrix Spike Duplicate	Dissolved	Water	6020	303681
400-120809-K-8-B MS ^25 -	Matrix Spike	Total Recoverable	Water	6020	303850
400-120809-K-8-C MSD ^25	Matrix Spike Duplicate	Total Recoverable	Water	6020	303850
400-120841-1 - DL	MW-2	Total Recoverable	Water	6020	303681
400-120841-2 - DL	MW-3	Total Recoverable	Water	6020	303681
400-120841-3 - DL	MW-6	Total Recoverable	Water	6020	303681
400-120841-4 - DL	MW-7	Total Recoverable	Water	6020	303681
400-120841-5 - DL	MW-10	Total Recoverable	Water	6020	303681
400-120841-5 - DL2	MW-10	Total Recoverable	Water	6020	303681
400-120841-6 - DL	MW-11	Total Recoverable	Water	6020	303681
400-120841-7 - DL	MW-12	Total Recoverable	Water	6020	303681
400-120841-8	FB-01	Total Recoverable	Water	6020	303681
400-120841-9	EB-01	Total Recoverable	Water	6020	303850
400-120841-10	DUP-01	Total Recoverable	Water	6020	303850
400-120841-11 - DL	DUP-02	Total Recoverable	Water	6020	303850
LCS 400-303681/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	303681
LCS 400-303850/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	303850
MB 400-303681/1-A ^5	Method Blank	Total Recoverable	Water	6020	303681
MB 400-303850/1-A ^5	Method Blank	Total Recoverable	Water	6020	303850

Analysis Batch: 304963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-1 - RA	MW-2	Total Recoverable	Water	6020	303681
400-120841-2 - RA	MW-3	Total Recoverable	Water	6020	303681
400-120841-3 - DL2	MW-6	Total Recoverable	Water	6020	303681
400-120841-11 - RADL	DUP-02	Total Recoverable	Water	6020	303850
LCS 400-303681/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	303681
MB 400-303681/1-A ^5	Method Blank	Total Recoverable	Water	6020	303681

General Chemistry

Analysis Batch: 303755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120755-O-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

General Chemistry (Continued)

Analysis Batch: 303755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120755-O-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-120841-1	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-120841-2	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-120841-3	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-120841-3 DU	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-120841-4	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-120841-5	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-120841-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
400-120841-7	MW-12	Total/NA	Water	SM 4500 SO4 E	
400-120841-8	FB-01	Total/NA	Water	SM 4500 SO4 E	
400-120841-9	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-120841-10	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-120841-11	DUP-02	Total/NA	Water	SM 4500 SO4 E	
LCS 400-303755/11	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-303755/10	Method Blank	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 303906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-1	MW-2	Total/NA	Water	SM 4500 CI- E	
400-120841-2	MW-3	Total/NA	Water	SM 4500 CI- E	
400-120841-3	MW-6	Total/NA	Water	SM 4500 CI- E	
400-120841-4	MW-7	Total/NA	Water	SM 4500 CI- E	
400-120841-4 DU	MW-7	Total/NA	Water	SM 4500 CI- E	
400-120841-5	MW-10	Total/NA	Water	SM 4500 CI- E	
400-120841-6	MW-11	Total/NA	Water	SM 4500 CI- E	
400-120841-7	MW-12	Total/NA	Water	SM 4500 CI- E	
400-120841-8	FB-01	Total/NA	Water	SM 4500 CI- E	
400-120841-9	EB-01	Total/NA	Water	SM 4500 CI- E	
400-120841-10	DUP-01	Total/NA	Water	SM 4500 CI- E	
400-120841-11	DUP-02	Total/NA	Water	SM 4500 CI- E	
LCS 400-303906/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MB 400-303906/6	Method Blank	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 304141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112676-K-10 MS	Matrix Spike	Total/NA	Water	SM 4500 CI- E	
460-112676-K-10 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CI- E	
LCS 400-304141/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MB 400-304141/6	Method Blank	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 305300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-1	MW-2	Total/NA	Water	SM 4500 F C	
400-120841-2	MW-3	Total/NA	Water	SM 4500 F C	
400-120841-3	MW-6	Total/NA	Water	SM 4500 F C	
400-121196-C-3 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-121196-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-121335-E-2 DU	Duplicate	Total/NA	Water	SM 4500 F C	
LCS 400-305300/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 400-305300/3	Method Blank	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

General Chemistry (Continued)

Analysis Batch: 306281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-12	MW-2	Total/NA	Water	SM 2540C	
400-120841-13	MW-3	Total/NA	Water	SM 2540C	
400-120841-14	MW-6	Total/NA	Water	SM 2540C	
400-120841-14 DU	MW-6	Total/NA	Water	SM 2540C	
400-120841-15	MW-7	Total/NA	Water	SM 2540C	
400-120841-15 DU	MW-7	Total/NA	Water	SM 2540C	
400-120841-16	MW-10	Total/NA	Water	SM 2540C	
400-120841-17	MW-11	Total/NA	Water	SM 2540C	
400-120841-18	MW-12	Total/NA	Water	SM 2540C	
400-120841-19	FB-01	Total/NA	Water	SM 2540C	
400-120841-20	EB-01	Total/NA	Water	SM 2540C	
400-120841-21	DUP-01	Total/NA	Water	SM 2540C	
400-120841-22	DUP-02	Total/NA	Water	SM 2540C	
LCS 400-306281/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 400-306281/1	Method Blank	Total/NA	Water	SM 2540C	

Analysis Batch: 306411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-4	MW-7	Total/NA	Water	SM 4500 F C	
400-120841-4 MS	MW-7	Total/NA	Water	SM 4500 F C	
400-120841-4 MSD	MW-7	Total/NA	Water	SM 4500 F C	
400-120841-5	MW-10	Total/NA	Water	SM 4500 F C	
400-120841-6	MW-11	Total/NA	Water	SM 4500 F C	
400-120841-7	MW-12	Total/NA	Water	SM 4500 F C	
400-120841-8	FB-01	Total/NA	Water	SM 4500 F C	
400-120841-9	EB-01	Total/NA	Water	SM 4500 F C	
400-120841-10	DUP-01	Total/NA	Water	SM 4500 F C	
400-120841-11	DUP-02	Total/NA	Water	SM 4500 F C	
400-120872-A-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	
LCS 400-306411/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 400-306411/3	Method Blank	Total/NA	Water	SM 4500 F C	

Rad

Prep Batch: 248815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-1	MW-2	Total/NA	Water	PrecSep-21	
400-120841-2	MW-3	Total/NA	Water	PrecSep-21	
400-120841-3	MW-6	Total/NA	Water	PrecSep-21	
400-120841-4	MW-7	Total/NA	Water	PrecSep-21	
400-120841-5	MW-10	Total/NA	Water	PrecSep-21	
400-120841-6	MW-11	Total/NA	Water	PrecSep-21	
400-120841-7	MW-12	Total/NA	Water	PrecSep-21	
400-120841-8	FB-01	Total/NA	Water	PrecSep-21	
400-120841-9	EB-01	Total/NA	Water	PrecSep-21	
400-120841-10	DUP-01	Total/NA	Water	PrecSep-21	
400-120841-10 DU	DUP-01	Total/NA	Water	PrecSep-21	
400-120841-11	DUP-02	Total/NA	Water	PrecSep-21	
LCS 160-248815/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-248815/1-A	Method Blank	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Rad (Continued)

Prep Batch: 248820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-1	MW-2	Total/NA	Water	PrecSep_0	
400-120841-2	MW-3	Total/NA	Water	PrecSep_0	
400-120841-3	MW-6	Total/NA	Water	PrecSep_0	
400-120841-4	MW-7	Total/NA	Water	PrecSep_0	
400-120841-5	MW-10	Total/NA	Water	PrecSep_0	
400-120841-6	MW-11	Total/NA	Water	PrecSep_0	
400-120841-7	MW-12	Total/NA	Water	PrecSep_0	
400-120841-8	FB-01	Total/NA	Water	PrecSep_0	
400-120841-9	EB-01	Total/NA	Water	PrecSep_0	
400-120841-10	DUP-01	Total/NA	Water	PrecSep_0	
400-120841-10 DU	DUP-01	Total/NA	Water	PrecSep_0	
400-120841-11	DUP-02	Total/NA	Water	PrecSep_0	
LCS 160-248820/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-248820/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 305271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-1	MW-2	Total/NA	Water	Field Sampling	
400-120841-2	MW-3	Total/NA	Water	Field Sampling	
400-120841-3	MW-6	Total/NA	Water	Field Sampling	
400-120841-4	MW-7	Total/NA	Water	Field Sampling	
400-120841-5	MW-10	Total/NA	Water	Field Sampling	
400-120841-6	MW-11	Total/NA	Water	Field Sampling	
400-120841-7	MW-12	Total/NA	Water	Field Sampling	
400-120841-10	DUP-01	Total/NA	Water	Field Sampling	
400-120841-11	DUP-02	Total/NA	Water	Field Sampling	

Analysis Batch: 308084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-12	MW-2	Total/NA	Water	Field Sampling	
400-120841-13	MW-3	Total/NA	Water	Field Sampling	
400-120841-14	MW-6	Total/NA	Water	Field Sampling	
400-120841-15	MW-7	Total/NA	Water	Field Sampling	
400-120841-16	MW-10	Total/NA	Water	Field Sampling	
400-120841-17	MW-11	Total/NA	Water	Field Sampling	
400-120841-18	MW-12	Total/NA	Water	Field Sampling	
400-120841-21	DUP-01	Total/NA	Water	Field Sampling	
400-120841-22	DUP-02	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-303681/1-A ^5
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 303681

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/28/16 08:05	04/29/16 12:55	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/28/16 08:05	04/29/16 12:55	5
Barium	0.000770	I	0.0025	0.00049	mg/L		04/28/16 08:05	04/29/16 12:55	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	04/29/16 12:55	5
Boron	0.021	U	0.050	0.021	mg/L		04/28/16 08:05	04/29/16 12:55	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	04/29/16 12:55	5
Calcium	0.13	U	0.25	0.13	mg/L		04/28/16 08:05	04/29/16 12:55	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/28/16 08:05	04/29/16 12:55	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/28/16 08:05	04/29/16 12:55	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/28/16 08:05	04/29/16 12:55	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/28/16 08:05	04/29/16 12:55	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/28/16 08:05	04/29/16 12:55	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/28/16 08:05	04/29/16 12:55	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/28/16 08:05	04/29/16 12:55	5

Lab Sample ID: MB 400-303681/1-A ^5
Matrix: Water
Analysis Batch: 304963

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 303681

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/28/16 08:05	05/06/16 14:27	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/28/16 08:05	05/06/16 14:27	5
Barium	0.000840	I	0.0025	0.00049	mg/L		04/28/16 08:05	05/06/16 14:27	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	05/06/16 14:27	5
Boron	0.021	U	0.050	0.021	mg/L		04/28/16 08:05	05/06/16 14:27	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/28/16 08:05	05/06/16 14:27	5
Calcium	0.13	U	0.25	0.13	mg/L		04/28/16 08:05	05/06/16 14:27	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/28/16 08:05	05/06/16 14:27	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/28/16 08:05	05/06/16 14:27	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/28/16 08:05	05/06/16 14:27	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/28/16 08:05	05/06/16 14:27	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/28/16 08:05	05/06/16 14:27	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/28/16 08:05	05/06/16 14:27	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/28/16 08:05	05/06/16 14:27	5

Lab Sample ID: LCS 400-303681/2-A ^1
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 303681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0542		mg/L		108	80 - 120
Arsenic	0.0500	0.0515		mg/L		103	80 - 120
Barium	0.0500	0.0481		mg/L		96	80 - 120
Beryllium	0.0500	0.0473		mg/L		95	80 - 120
Boron	0.100	0.0947		mg/L		95	80 - 120
Cadmium	0.0500	0.0522		mg/L		104	80 - 120
Calcium	5.00	4.92		mg/L		98	80 - 120
Chromium	0.0500	0.0498		mg/L		100	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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

Lab Sample ID: LCS 400-303681/2-A ^1
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 303681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Cobalt	0.0500	0.0508		mg/L		102	80 - 120	
Lead	0.0500	0.0512		mg/L		102	80 - 120	
Lithium	0.0500	0.0522		mg/L		104	80 - 120	
Molybdenum	0.0500	0.0503		mg/L		101	80 - 120	
Selenium	0.0500	0.0508		mg/L		102	80 - 120	
Thallium	0.0100	0.0101		mg/L		101	80 - 120	

Lab Sample ID: LCS 400-303681/2-A ^1
Matrix: Water
Analysis Batch: 304963

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 303681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Antimony	0.0500	0.0540		mg/L		108	80 - 120	
Arsenic	0.0500	0.0521		mg/L		104	80 - 120	
Barium	0.0500	0.0479		mg/L		96	80 - 120	
Beryllium	0.0500	0.0472		mg/L		94	80 - 120	
Boron	0.100	0.0925		mg/L		93	80 - 120	
Cadmium	0.0500	0.0526		mg/L		105	80 - 120	
Calcium	5.00	5.07		mg/L		101	80 - 120	
Chromium	0.0500	0.0508		mg/L		102	80 - 120	
Cobalt	0.0500	0.0495		mg/L		99	80 - 120	
Lead	0.0500	0.0501		mg/L		100	80 - 120	
Lithium	0.0500	0.0510		mg/L		102	80 - 120	
Molybdenum	0.0500	0.0499		mg/L		100	80 - 120	
Selenium	0.0500	0.0508		mg/L		102	80 - 120	
Thallium	0.0100	0.0101		mg/L		101	80 - 120	

Lab Sample ID: MB 400-303850/1-A ^5
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 303850

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/29/16 08:15	04/29/16 15:44	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/29/16 08:15	04/29/16 15:44	5
Barium	0.00049	U	0.0025	0.00049	mg/L		04/29/16 08:15	04/29/16 15:44	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	04/29/16 15:44	5
Boron	0.021	U	0.050	0.021	mg/L		04/29/16 08:15	04/29/16 15:44	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	04/29/16 15:44	5
Calcium	0.13	U	0.25	0.13	mg/L		04/29/16 08:15	04/29/16 15:44	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/29/16 08:15	04/29/16 15:44	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/29/16 08:15	04/29/16 15:44	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/29/16 08:15	04/29/16 15:44	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/29/16 08:15	04/29/16 15:44	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/29/16 08:15	04/29/16 15:44	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/29/16 08:15	04/29/16 15:44	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/29/16 08:15	04/29/16 15:44	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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

Lab Sample ID: LCS 400-303850/2-A ^1
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 303850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0545		mg/L		109	80 - 120
Arsenic	0.0500	0.0513		mg/L		103	80 - 120
Barium	0.0500	0.0473		mg/L		95	80 - 120
Beryllium	0.0500	0.0454		mg/L		91	80 - 120
Boron	0.100	0.0926		mg/L		93	80 - 120
Cadmium	0.0500	0.0517		mg/L		103	80 - 120
Calcium	5.00	4.79		mg/L		96	80 - 120
Chromium	0.0500	0.0500		mg/L		100	80 - 120
Cobalt	0.0500	0.0518		mg/L		104	80 - 120
Lead	0.0500	0.0507		mg/L		101	80 - 120
Lithium	0.0500	0.0537		mg/L		107	80 - 120
Molybdenum	0.0500	0.0507		mg/L		101	80 - 120
Selenium	0.0500	0.0508		mg/L		102	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120

Lab Sample ID: 400-120809-J-8-B MS ^5
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 303681

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0010	U	0.0500	0.0611		mg/L		122	75 - 125
Arsenic	0.44		0.0500	0.483		mg/L		92	75 - 125
Barium	0.0017	I V	0.0500	0.0501		mg/L		97	75 - 125
Beryllium	0.00034	U	0.0500	0.0488		mg/L		98	75 - 125
Boron	0.13		0.100	0.231		mg/L		104	75 - 125
Cadmium	0.00035	I	0.0500	0.0543		mg/L		108	75 - 125
Calcium	150		5.00	154	J3	mg/L		23	75 - 125
Chromium	0.0014	I	0.0500	0.0506		mg/L		98	75 - 125
Cobalt	0.0096		0.0500	0.0604		mg/L		102	75 - 125
Lead	0.00035	U	0.0500	0.0539		mg/L		108	75 - 125
Lithium	0.23		0.0500	0.259	J3	mg/L		54	75 - 125
Molybdenum	0.00085	U	0.0500	0.0503		mg/L		101	75 - 125
Selenium	0.00024	U	0.0500	0.0494		mg/L		99	75 - 125
Thallium	0.000085	U	0.0100	0.0104		mg/L		104	75 - 125

Lab Sample ID: 400-120809-J-8-C MSD ^5
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 303681

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.0010	U	0.0500	0.0593		mg/L		119	75 - 125	3	20
Arsenic	0.44		0.0500	0.486		mg/L		97	75 - 125	1	20
Barium	0.0017	I V	0.0500	0.0515		mg/L		100	75 - 125	3	20
Beryllium	0.00034	U	0.0500	0.0495		mg/L		99	75 - 125	2	20
Boron	0.13		0.100	0.230		mg/L		104	75 - 125	0	20
Cadmium	0.00035	I	0.0500	0.0548		mg/L		109	75 - 125	1	20
Calcium	150		5.00	157	J3	mg/L		68	75 - 125	1	20
Chromium	0.0014	I	0.0500	0.0525		mg/L		102	75 - 125	4	20

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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

Lab Sample ID: 400-120809-J-8-C MSD ^5
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 303681

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Cobalt	0.0096		0.0500	0.0626		mg/L		106	75 - 125	3	20
Lead	0.00035	U	0.0500	0.0548		mg/L		110	75 - 125	2	20
Lithium	0.23		0.0500	0.253	J3	mg/L		43	75 - 125	2	20
Molybdenum	0.00085	U	0.0500	0.0517		mg/L		103	75 - 125	3	20
Selenium	0.00024	U	0.0500	0.0502		mg/L		100	75 - 125	2	20
Thallium	0.000085	U	0.0100	0.0107		mg/L		107	75 - 125	4	20

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

Lab Sample ID: 400-120809-K-8-B MS ^25
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 303850

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony - DL	0.0050	U	0.0500	0.0429		mg/L		86	75 - 125		
Arsenic - DL	0.43		0.0500	0.498	J3	mg/L		139	75 - 125		
Barium - DL	0.0055	I	0.0500	0.0542		mg/L		98	75 - 125		
Beryllium - DL	0.0017	U	0.0500	0.0460		mg/L		92	75 - 125		
Boron - DL	0.11	U	0.100	0.170	I	mg/L		NC	75 - 125		
Cadmium - DL	0.0017	U	0.0500	0.0585		mg/L		117	75 - 125		
Calcium - DL	150		5.00	160	J3	mg/L		215	75 - 125		
Chromium - DL	0.0055	U	0.0500	0.0574		mg/L		115	75 - 125		
Cobalt - DL	0.0094	I	0.0500	0.0653		mg/L		112	75 - 125		
Lead - DL	0.0018	U	0.0500	0.0533		mg/L		107	75 - 125		
Lithium - DL	0.28		0.0500	0.300	J3	mg/L		37	75 - 125		
Molybdenum - DL	0.0043	U	0.0500	0.0514	I	mg/L		103	75 - 125		
Selenium - DL	0.0012	U	0.0500	0.0491		mg/L		98	75 - 125		
Thallium - DL	0.00043	U	0.0100	0.0106		mg/L		106	75 - 125		

Lab Sample ID: 400-120809-K-8-C MSD ^25
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 303850

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony - DL	0.0050	U	0.0500	0.0390		mg/L		78	75 - 125	9	20
Arsenic - DL	0.43		0.0500	0.482		mg/L		108	75 - 125	3	20
Barium - DL	0.0055	I	0.0500	0.0543		mg/L		98	75 - 125	0	20
Beryllium - DL	0.0017	U	0.0500	0.0459		mg/L		92	75 - 125	0	20
Boron - DL	0.11	U	0.100	0.153	I	mg/L		NC	75 - 125	11	20
Cadmium - DL	0.0017	U	0.0500	0.0560		mg/L		112	75 - 125	4	20
Calcium - DL	150		5.00	155		mg/L		116	75 - 125	3	20
Chromium - DL	0.0055	U	0.0500	0.0555		mg/L		111	75 - 125	3	20
Cobalt - DL	0.0094	I	0.0500	0.0650		mg/L		111	75 - 125	0	20
Lead - DL	0.0018	U	0.0500	0.0538		mg/L		108	75 - 125	1	20
Lithium - DL	0.28		0.0500	0.321		mg/L		79	75 - 125	7	20
Molybdenum - DL	0.0043	U	0.0500	0.0524	I	mg/L		105	75 - 125	2	20
Selenium - DL	0.0012	U	0.0500	0.0488		mg/L		98	75 - 125	1	20
Thallium - DL	0.00043	U	0.0100	0.0105		mg/L		105	75 - 125	1	20

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-303786/14-A
Matrix: Water
Analysis Batch: 304067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303786

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/28/16 09:00	04/29/16 12:37	1

Lab Sample ID: LCS 400-303786/15-A
Matrix: Water
Analysis Batch: 304067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303786

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00101		mg/L		100	80 - 120

Lab Sample ID: 400-120768-A-3-B MS
Matrix: Water
Analysis Batch: 304067

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 303786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.000070	U	0.00201	0.00171		mg/L		85	80 - 120

Lab Sample ID: 400-120768-A-3-C MSD
Matrix: Water
Analysis Batch: 304067

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 303786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.000070	U	0.00201	0.00177		mg/L		88	80 - 120	3	20

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

Lab Sample ID: MB 400-306281/1
Matrix: Water
Analysis Batch: 306281

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/17/16 10:19	1

Lab Sample ID: LCS 400-306281/2
Matrix: Water
Analysis Batch: 306281

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	262		mg/L		89	78 - 122

Lab Sample ID: 400-120841-14 DU
Matrix: Water
Analysis Batch: 306281

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	7500		7390		mg/L		2	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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

Lab Sample ID: 400-120841-15 DU
Matrix: Water
Analysis Batch: 306281

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3700		3560		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-303906/6
Matrix: Water
Analysis Batch: 303906

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			04/28/16 15:51	1

Lab Sample ID: LCS 400-303906/7
Matrix: Water
Analysis Batch: 303906

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	32.0		mg/L		107	90 - 110

Lab Sample ID: 400-120841-4 DU
Matrix: Water
Analysis Batch: 303906

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	1600		1650		mg/L		0.1	8

Lab Sample ID: MB 400-304141/6
Matrix: Water
Analysis Batch: 304141

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			04/29/16 12:43	1

Lab Sample ID: LCS 400-304141/7
Matrix: Water
Analysis Batch: 304141

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	32.0		mg/L		107	90 - 110

Lab Sample ID: 460-112676-K-10 MS
Matrix: Water
Analysis Batch: 304141

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	670		500	681	J3	mg/L		2	73 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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

Lab Sample ID: 460-112676-K-10 MSD
Matrix: Water
Analysis Batch: 304141

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	670		500	661	J3	mg/L		-1	73 - 120	3	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-305300/3
Matrix: Water
Analysis Batch: 305300

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			05/09/16 17:25	1

Lab Sample ID: LCS 400-305300/4
Matrix: Water
Analysis Batch: 305300

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: 400-121196-C-3 MS
Matrix: Water
Analysis Batch: 305300

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	3.9		1.00	5.03		mg/L		117	75 - 125

Lab Sample ID: 400-121196-C-3 MSD
Matrix: Water
Analysis Batch: 305300

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	3.9		1.00	4.93		mg/L		107	75 - 125	2	4

Lab Sample ID: 400-121335-E-2 DU
Matrix: Water
Analysis Batch: 305300

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.11		0.110		mg/L		0	4

Lab Sample ID: MB 400-306411/3
Matrix: Water
Analysis Batch: 306411

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			05/17/16 15:43	1

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-306411/4
Matrix: Water
Analysis Batch: 306411

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	4.36		mg/L		109	90 - 110

Lab Sample ID: 400-120841-4 MS
Matrix: Water
Analysis Batch: 306411

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
Fluoride	0.040	I	1.00	1.01		mg/L		97	75 - 125

Lab Sample ID: 400-120841-4 MSD
Matrix: Water
Analysis Batch: 306411

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
Fluoride	0.040	I	1.00	0.970		mg/L		93	75 - 125	4	4

Lab Sample ID: 400-120872-A-1 DU
Matrix: Water
Analysis Batch: 306411

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	U	0.032	U	mg/L		NC	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-303755/10
Matrix: Water
Analysis Batch: 303755

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			04/27/16 16:36	1

Lab Sample ID: LCS 400-303755/11
Matrix: Water
Analysis Batch: 303755

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		100	90 - 110

Lab Sample ID: 400-120755-O-1 MS
Matrix: Water
Analysis Batch: 303755

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	U	10.0	1.4	U J3	mg/L		0	77 - 128

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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

Lab Sample ID: 400-120755-O-1 MSD
Matrix: Water
Analysis Batch: 303755

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	U	10.0	1.4	U J3	mg/L		0	77 - 128	NC	5

Lab Sample ID: 400-120841-3 DU
Matrix: Water
Analysis Batch: 303755

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	780		782		mg/L		0.4	5

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-248815/1-A
Matrix: Water
Analysis Batch: 252886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248815

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.001459	U	0.0408	0.0408	1.00	0.0785	pCi/L	05/02/16 14:02	05/24/16 07:23	1
Carrier	%Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					05/02/16 14:02	05/24/16 07:23	1

Lab Sample ID: LCS 160-248815/2-A
Matrix: Water
Analysis Batch: 252886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248815

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	15.12		1.44	1.00	0.0752	pCi/L	135	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	88.0		40 - 110						

Lab Sample ID: 400-120841-10 DU
Matrix: Water
Analysis Batch: 252886

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 248815

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	3.33		3.716		0.411	1.00	0.0600	pCi/L	0.49	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	92.6		40 - 110							

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-248820/1-A
Matrix: Water
Analysis Batch: 250236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248820

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1955	U	0.234	0.234	1.00	0.386	pCi/L	05/02/16 15:11	05/10/16 12:28	1
Carrier	MB MB		Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	88.0		40 - 110		05/02/16 15:11	05/10/16 12:28	1			
Y Carrier	87.1		40 - 110		05/02/16 15:11	05/10/16 12:28	1			

Lab Sample ID: LCS 160-248820/2-A
Matrix: Water
Analysis Batch: 250236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248820

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	15.2	17.55		1.87	1.00	0.412	pCi/L	116	56 - 140
Carrier	LCS LCS		Limits		Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier							
Ba Carrier	88.0		40 - 110						
Y Carrier	83.4		40 - 110						

Lab Sample ID: 400-120841-10 DU
Matrix: Water
Analysis Batch: 250236

Client Sample ID: DUP-01
Prep Type: Total/NA
Prep Batch: 248820

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit	
Radium-228	0.389		0.6262		0.288	1.00	0.404	pCi/L	0.44	1	
Carrier	DU DU		Limits		Prepared	Analyzed	Dil Fac				
	%Yield	Qualifier									
Ba Carrier	92.6		40 - 110								
Y Carrier	83.7		40 - 110								

Chain of Custody Record

Client Information
 Client Contact: Carl Eldred
 Company: Hopping Greens & Sams
 Address: 119 S Monroe St. ste 300
 City: Tallahassee
 State, Zip: FL, 32301
 Phone: 850-444-6427(Tel)
 Email: carle@hgsllaw.com
 Project Name: CCR Smith Plant
 Event Desc: CCR Smith Plant
 Site: Florida

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

Sample Information
 Sample Name: *SAME BOAG*
 Phone: *850-336-0100*

Due Date Requested:
TAT Requested (days):
PO #:
Purchase Order not required
WO #:
Project #: 4009609
SSOW#:

Analysis Requested
 3015 Ra226, 9320 Ra228
 5M4500, Cl. 5M4500, 504 F
 Field Sampling - Field Sampling Parameters
 6020, 7170A
 250C - Total Dissolved Solids
 4500, F, C - Fluoride
 400-120841 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
 M - Hexane
 N - None
 O - As2O2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)
 Other:

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, G=grab, etc.)
MW-2	4-25-16	1525	G	Water
MW-3	4-25-16	1645	G	Water
MW-6	4-26-16	1405	G	Water
MW-7	4-26-16	1825	G	Water
MW-8				Water
MW-9				Water
MW-10	4-26-16	1540	G	Water
MW-11	4-26-16	1405	G	Water
MW-12	4-26-16	0845	G	Water
MW-13				Water
MW-14				Water

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

Deliverable Requested: Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Empty Kit Relinquished by: *D. Don Duff*
 Date: 4-26-16 Time: 1730
 Relinquished by: *D. Don Duff*
 Date/Time: 4-26-16 1730
 Relinquished by: *D. Don Duff*
 Date/Time: 4-26-16 1730
 Relinquished by: *D. Don Duff*
 Date/Time: 4-26-16 1730

Custody Seal No.: *0.996, 1.896, 1.88*
 A Yes No

Chain of Custody Record

120841

Client Information Client Contact: Shane Bragg Client Address: 850-336-0194 Company: Hopping Greens & Sams Address: 119 S Monroe St. ste 300 City: Tallahassee State, Zip: FL, 32301 Phone: 850-444-6427(Tel) Email: carle@hgslaw.com Project Name: CCR Smith Plant Project Desc: CCR Smith Plant Site: Florida		Lab P.M.: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-53431-23665.2 Page: Page 2 of 2 Job #:	
Analysis Requested 9316 Ra226, 9320 Ra228 SM4500 Cl, E, SM4500 SO4 F Field Sampling - Field Sampling Parameters 6020, 7470A 2540C - Total Dissolved Solids 4500 F, C - Fluoride		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: 4-26-16 0753 Sample Time: 1840 Sample Date: 4-26-16 1925 Sample Time: 1325 Sample Date: 4-26-16 Sample Time:		Special Instructions/Note: 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:	
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: P. Bragg Date/Time: 4-26-16 1730 Relinquished by: Date/Time: Relinquished by: Date/Time:	
Sample Matrix Matrix (W=Water, S=Soil, O=Organic, BT=Biological, T=Tissue, A=Air) Water Water Water Water Water Water		Sample Type (C=Comp, G=Grab) G G G G G G	
Company Company: RDH EMM Received by: [Signature] Date/Time: 4/27/16 833 Company: [Signature] Received by: Date/Time: Company: Received by: Date/Time:		Method of Shipment: Cooler Temperature(s): °C and Other Remarks:	



Chain of Custody Record

Client Information
 Client Name: Kristi Mitchell
 Company: Gulf Power Company
 Address: BIN 731 One Energy Place
 City: Pensacola
 State, Zip: FL, 32520
 Phone: 850-444-6427 (Tel)
 Email: krmitch@southernco.com
 Project Name: CCR Smith Plant
 Site: Florida

Lab P.M.: Whitmore, Cheyenne R.
 E-Mail: cheyenne.whitmore@testamericainc.com
 Phone: 850 350 3458

Carrier Tracking No(s): 400-55514-24208.1
 Page: Page 1 of 2
 Job #:

Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required
 WO #:
 Project #: 40006609
 SSO #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=can, G=grab)	Matrix (Water, Solid, or unknown)	Preservation Code	Analysis Requested	Special Instructions/Note
mw-02	5/11/16	1024	G	Water			6.64
Dup-01	5/11/16	0924	G	Water			6.64
mw-03	5/11/16	1127	G	Water			5.12
mw-06	5/11/16	1227	G	Water			4.93
mw-07	5/11/16	1352	G	Water			6.15
Field Blank - 01	5/11/16	1525	G	Water			
mw-11	5/11/16	1514	G	Water			6.38
mw-12	5/11/16	1240	G	Water			5.92
EB-01	5/11/16	1250	G	Water			
MW-13	5/11/16	1400	G	Water			7.12
MW-10	5/11/16	1556	G	Water			5.48

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/OC Requirements:
 Received by: [Signature] Date/Time: 5/26/16 Company: [Blank]
 Received by: [Signature] Date/Time: [Blank] Company: [Blank]
 Received by: [Signature] Date/Time: [Blank] Company: [Blank]

Empty Kit Relinquished by: [Signature] Date: 5/12/16
 Relinquished by: [Signature] Date/Time: 1200 Company: [Blank]
 Relinquished by: [Signature] Date/Time: [Blank] Company: [Blank]

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Custody Seal No.: A Yes A No



Chain of Custody Record

Lab Pmt: Whitire, Cheyenne R
 E-Mail: cheyenne.whitire@e
 Sampler: Brent Surles
 Phone: 850 380 3488
 Client Information
 Client Contact: Kristi Mitchell
 Company: Gulf Power Company
 Address: BIN 731 One Energy Place
 City: Pensacola
 State, Zip: FL, 32520
 Phone: 850-444-6427(Tel)
 Email: krmitch@southernco.com
 Project Name: CCR Smith Plant
 Site: Florida

DOC No: 400-55514-24208.2
 Page: Page 2 of 2
 Job #:

Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required
 WO #:
 Project #: 40006609
 SSONW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Liquid, Solid, On-water, In-water, AAS)	Preservation Codes	2540C - Total Dissolved Solids	2540C - Total Dissolved Solids	Special Instructions/Notes
MW-9	5/12/16	0729	G	Water		X	X	502
MW-14	5/12/16	0820	G	Water		X	X	675
MW-8	5/12/16	0920	G	Water		X	X	472
Dup-02	5/12/16	0629	G	Water		X	X	502
CO Blank-02	5/12/16	0930	G	Water		X	X	
Field Blank-02	5/12/16	0830	G	Water		X	X	
				Water				
				Water				
				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/OC Requirements:
 Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Requisitioned by: _____ Date: 5/12/16
 Requisitioned by: _____ Date/Time: 1200
 Requisitioned by: _____ Date/Time:
 Requisitioned by: _____ Date/Time:
 Custody Seals Intact: _____
 A Yes A No



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-120841-1

SDG Number:

Login Number: 120841

List Number: 1

Creator: Crawford, Lauren E

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	0.4°C, 1.8°C IR-6, 2.4°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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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	06-30-16
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
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.

TestAmerica Pensacola

Certification Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120841-1

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: 400-120872-1

Client Project/Site: CCR Smith Plant

For:

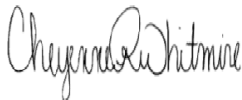
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

5/31/2016 5:40:03 PM

Cheyenne Whitmire, Project Manager II

(850)474-1001

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Job ID: 400-120872-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-120872-1

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-8 (400-120872-1), MW-9 (400-120872-2), MW-13 (400-120872-3), MW-14 (400-120872-4) and DUP-03 (400-120872-7). Elevated reporting limits (RLs) are provided.

General Chemistry

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 304705 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.

Comments

Method(s) 2540C: This analysis was not requested on original coc. Client resampled and these were added to the report.

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Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-8

Lab Sample ID: 400-120872-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - DL	0.086		0.013	0.0025	mg/L	25		6020	Total Recoverable
Boron - DL2	15		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL2	610		5.0	2.5	mg/L	100		6020	Total Recoverable
Chloride	3800		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Sulfate	1000		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	4.62				SU		1	Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-120872-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic - DL	0.0032	I	0.0063	0.0023	mg/L	25		6020	Total Recoverable
Barium - DL	0.094		0.013	0.0025	mg/L	25		6020	Total Recoverable
Boron - DL2	12		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL2	440		5.0	2.5	mg/L	100		6020	Total Recoverable
Chloride	2900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	880		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.19				SU		1	Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-120872-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - DL	0.15		0.013	0.0025	mg/L	25		6020	Total Recoverable
Lithium - DL	0.17		0.025	0.016	mg/L	25		6020	Total Recoverable
Molybdenum - DL	0.028	I	0.075	0.0043	mg/L	25		6020	Total Recoverable
Boron - DL2	19		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL2	900		5.0	2.5	mg/L	100		6020	Total Recoverable
Chloride	4200		2000	600	mg/L	1000		SM 4500 Cl- E	Total/NA
Fluoride	0.050	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1200		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	7.08				SU		1	Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-120872-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic - DL	0.0023	I	0.0063	0.0023	mg/L	25		6020	Total Recoverable
Barium - DL	0.055		0.013	0.0025	mg/L	25		6020	Total Recoverable
Calcium - DL	250		1.3	0.63	mg/L	25		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-14 (Continued)

Lab Sample ID: 400-120872-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum - DL	0.019	I	0.075	0.0043	mg/L	25		6020	Total Recoverable
Boron - DL2	11		1.0	0.42	mg/L	100		6020	Total Recoverable
Chloride	2700		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	670		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.62				SU	1		Field Sampling	Total/NA

Client Sample ID: FB-02

Lab Sample ID: 400-120872-5

No Detections.

Client Sample ID: EB-02

Lab Sample ID: 400-120872-6

No Detections.

Client Sample ID: DUP-03

Lab Sample ID: 400-120872-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic - DL	0.0023	I	0.0063	0.0023	mg/L	25		6020	Total Recoverable
Barium - DL	0.051		0.013	0.0025	mg/L	25		6020	Total Recoverable
Molybdenum - DL	0.017	I	0.075	0.0043	mg/L	25		6020	Total Recoverable
Boron - DL2	11		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL2	270		5.0	2.5	mg/L	100		6020	Total Recoverable
Chloride	2700		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	650		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.62				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-120872-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	8100		50	34	mg/L	1		SM 2540C	Total/NA
Field pH	4.72				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-120872-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	6100		25	17	mg/L	1		SM 2540C	Total/NA
Field pH	5.02				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-120872-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	11000		50	34	mg/L	1		SM 2540C	Total/NA
Field pH	7.12				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-14

Lab Sample ID: 400-120872-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	5100		25	17	mg/L	1		SM 2540C	Total/NA
Field pH	6.75				SU	1		Field Sampling	Total/NA

Client Sample ID: FB-02

Lab Sample ID: 400-120872-12

No Detections.

Client Sample ID: EB-02

Lab Sample ID: 400-120872-13

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola



Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-120872-1	MW-8	Water	04/27/16 10:25	04/28/16 08:30
400-120872-2	MW-9	Water	04/27/16 12:40	04/28/16 08:30
400-120872-3	MW-13	Water	04/27/16 08:50	04/28/16 08:30
400-120872-4	MW-14	Water	04/27/16 15:10	04/28/16 08:30
400-120872-5	FB-02	Water	04/27/16 14:40	04/28/16 08:30
400-120872-6	EB-02	Water	04/27/16 15:30	04/28/16 08:30
400-120872-7	DUP-03	Water	04/27/16 14:10	04/28/16 08:30
400-120872-8	MW-8	Water	05/12/16 09:20	05/12/16 12:00
400-120872-9	MW-9	Water	05/12/16 07:29	05/12/16 12:00
400-120872-10	MW-13	Water	05/11/16 14:00	05/12/16 12:00
400-120872-11	MW-14	Water	05/12/16 08:20	05/12/16 12:00
400-120872-12	FB-02	Water	05/12/16 08:30	05/12/16 12:00
400-120872-13	EB-02	Water	05/12/16 09:30	05/12/16 12:00

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-8
Date Collected: 04/27/16 10:25
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/29/16 08:15	04/29/16 20:06	25
Arsenic	0.0023	U	0.0063	0.0023	mg/L		04/29/16 08:15	04/29/16 20:06	25
Barium	0.086		0.013	0.0025	mg/L		04/29/16 08:15	04/29/16 20:06	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	04/29/16 20:06	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/29/16 08:15	04/29/16 20:06	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/29/16 08:15	04/29/16 20:06	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/29/16 08:15	04/29/16 20:06	25
Lithium	0.016	U	0.025	0.016	mg/L		04/29/16 08:15	04/29/16 20:06	25
Molybdenum	0.0043	U	0.075	0.0043	mg/L		04/29/16 08:15	04/29/16 20:06	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/29/16 08:15	04/29/16 20:06	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/29/16 08:15	04/29/16 20:06	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	15		1.0	0.42	mg/L		04/29/16 08:15	05/06/16 14:22	100
Calcium	610		5.0	2.5	mg/L		04/29/16 08:15	05/06/16 14:22	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	05/06/16 12:52	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/16 09:29	05/02/16 10:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3800		240	72	mg/L			05/04/16 12:38	120
Fluoride	0.032	U	0.10	0.032	mg/L			05/17/16 16:22	1
Sulfate	1000		500	140	mg/L			05/05/16 11:02	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	18.4		0.520	1.74	1.00	0.0582	pCi/L	05/02/16 14:02	05/24/16 07:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					05/02/16 14:02	05/24/16 07:25	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	26.9		1.10	2.70	1.00	0.406	pCi/L	05/02/16 15:11	05/10/16 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					05/02/16 15:11	05/10/16 12:30	1
Y Carrier	87.1		40 - 110					05/02/16 15:11	05/10/16 12:30	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-8

Lab Sample ID: 400-120872-1

Date Collected: 04/27/16 10:25

Matrix: Water

Date Received: 04/28/16 08:30

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	45.3		1.21	3.21	5.00	0.406	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.62				SU			04/27/16 10:25	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-9
Date Collected: 04/27/16 12:40
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/29/16 08:15	04/29/16 20:10	25
Arsenic	0.0032	I	0.0063	0.0023	mg/L		04/29/16 08:15	04/29/16 20:10	25
Barium	0.094		0.013	0.0025	mg/L		04/29/16 08:15	04/29/16 20:10	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	04/29/16 20:10	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/29/16 08:15	04/29/16 20:10	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/29/16 08:15	04/29/16 20:10	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/29/16 08:15	04/29/16 20:10	25
Lithium	0.016	U	0.025	0.016	mg/L		04/29/16 08:15	04/29/16 20:10	25
Molybdenum	0.0043	U	0.075	0.0043	mg/L		04/29/16 08:15	04/29/16 20:10	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/29/16 08:15	04/29/16 20:10	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/29/16 08:15	04/29/16 20:10	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		1.0	0.42	mg/L		04/29/16 08:15	05/06/16 13:01	100
Calcium	440		5.0	2.5	mg/L		04/29/16 08:15	05/06/16 13:01	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	05/06/16 12:56	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/16 09:29	05/02/16 10:30	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2900		200	60	mg/L			05/04/16 12:25	100
Fluoride	0.040	I	0.10	0.032	mg/L			05/17/16 16:46	1
Sulfate	880		500	140	mg/L			05/05/16 11:02	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	15.0		0.479	1.43	1.00	0.0600	pCi/L	05/02/16 14:02	05/24/16 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/02/16 14:02	05/24/16 07:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	15.0		0.860	1.63	1.00	0.439	pCi/L	05/02/16 15:11	05/10/16 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					05/02/16 15:11	05/10/16 12:30	1
Y Carrier	85.6		40 - 110					05/02/16 15:11	05/10/16 12:30	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-9

Lab Sample ID: 400-120872-2

Date Collected: 04/27/16 12:40

Matrix: Water

Date Received: 04/28/16 08:30

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	30.0		0.985	2.17	5.00	0.439	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.19				SU			04/27/16 12:40	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-13
Date Collected: 04/27/16 08:50
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/29/16 08:15	04/29/16 20:15	25
Arsenic	0.0023	U	0.0063	0.0023	mg/L		04/29/16 08:15	04/29/16 20:15	25
Barium	0.15		0.013	0.0025	mg/L		04/29/16 08:15	04/29/16 20:15	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	04/29/16 20:15	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/29/16 08:15	04/29/16 20:15	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/29/16 08:15	04/29/16 20:15	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/29/16 08:15	04/29/16 20:15	25
Lithium	0.17		0.025	0.016	mg/L		04/29/16 08:15	04/29/16 20:15	25
Molybdenum	0.028	I	0.075	0.0043	mg/L		04/29/16 08:15	04/29/16 20:15	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/29/16 08:15	04/29/16 20:15	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/29/16 08:15	04/29/16 20:15	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	19		1.0	0.42	mg/L		04/29/16 08:15	05/06/16 13:10	100
Calcium	900		5.0	2.5	mg/L		04/29/16 08:15	05/06/16 13:10	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	05/06/16 13:05	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/16 09:29	05/02/16 10:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4200		2000	600	mg/L			05/04/16 12:55	1000
Fluoride	0.050	I	0.10	0.032	mg/L			05/17/16 16:48	1
Sulfate	1200		500	140	mg/L			05/05/16 11:02	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	9.70		0.381	0.952	1.00	0.0626	pCi/L	05/02/16 14:02	05/24/16 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					05/02/16 14:02	05/24/16 07:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.54		0.616	0.928	1.00	0.393	pCi/L	05/02/16 15:11	05/10/16 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					05/02/16 15:11	05/10/16 12:30	1
Y Carrier	86.4		40 - 110					05/02/16 15:11	05/10/16 12:30	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-13
Date Collected: 04/27/16 08:50
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-3
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	17.2		0.724	1.33	5.00	0.393	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.08				SU			04/27/16 08:50	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-14
Date Collected: 04/27/16 15:10
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-4
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/29/16 08:15	04/29/16 20:33	25
Arsenic	0.0023	I	0.0063	0.0023	mg/L		04/29/16 08:15	04/29/16 20:33	25
Barium	0.055		0.013	0.0025	mg/L		04/29/16 08:15	04/29/16 20:33	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	04/29/16 20:33	25
Calcium	250		1.3	0.63	mg/L		04/29/16 08:15	04/29/16 20:33	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/29/16 08:15	04/29/16 20:33	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/29/16 08:15	04/29/16 20:33	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/29/16 08:15	04/29/16 20:33	25
Lithium	0.016	U	0.025	0.016	mg/L		04/29/16 08:15	04/29/16 20:33	25
Molybdenum	0.019	I	0.075	0.0043	mg/L		04/29/16 08:15	04/29/16 20:33	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/29/16 08:15	04/29/16 20:33	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/29/16 08:15	04/29/16 20:33	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11		1.0	0.42	mg/L		04/29/16 08:15	05/06/16 13:19	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	05/06/16 13:14	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/16 09:29	05/02/16 10:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		200	60	mg/L			05/04/16 12:25	100
Fluoride	0.040	I	0.10	0.032	mg/L			05/17/16 16:51	1
Sulfate	670		500	140	mg/L			05/04/16 10:50	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	4.18		0.248	0.451	1.00	0.0577	pCi/L	05/02/16 14:02	05/24/16 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/02/16 14:02	05/24/16 07:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.42		0.526	0.725	1.00	0.371	pCi/L	05/02/16 15:11	05/10/16 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/02/16 15:11	05/10/16 12:30	1
Y Carrier	86.0		40 - 110					05/02/16 15:11	05/10/16 12:30	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-14
Date Collected: 04/27/16 15:10
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-4
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	9.60		0.582	0.854	5.00	0.371	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.62				SU			04/27/16 15:10	1

- 1
- 2
- 3
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- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: FB-02
Date Collected: 04/27/16 14:40
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/29/16 08:15	05/06/16 12:30	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/29/16 08:15	05/06/16 12:30	5
Barium	0.00049	U	0.0025	0.00049	mg/L		04/29/16 08:15	05/06/16 12:30	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	05/06/16 12:30	5
Boron	0.021	U	0.050	0.021	mg/L		04/29/16 08:15	05/06/16 12:30	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	05/06/16 12:30	5
Calcium	0.13	U	0.25	0.13	mg/L		04/29/16 08:15	05/06/16 12:30	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/29/16 08:15	05/06/16 12:30	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/29/16 08:15	05/06/16 12:30	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/29/16 08:15	05/06/16 12:30	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/29/16 08:15	05/06/16 12:30	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/29/16 08:15	05/06/16 12:30	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/29/16 08:15	05/06/16 12:30	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/29/16 08:15	05/06/16 12:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/16 09:29	05/02/16 10:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			05/04/16 11:52	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/17/16 16:53	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/04/16 10:18	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-226	0.00224	U	0.0283	0.0283	1.00	0.0567	pCi/L	05/02/16 14:02	05/24/16 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					05/02/16 14:02	05/24/16 07:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-228	0.224	U	0.207	0.208	1.00	0.332	pCi/L	05/02/16 15:11	05/10/16 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					05/02/16 15:11	05/10/16 12:30	1
Y Carrier	84.5		40 - 110					05/02/16 15:11	05/10/16 12:30	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Combined Radium 226 + 228	0.226	U	0.209	0.210	5.00	0.332	pCi/L		05/24/16 20:40	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: EB-02
Date Collected: 04/27/16 15:30
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-6
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/29/16 08:15	05/06/16 12:34	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/29/16 08:15	05/06/16 12:34	5
Barium	0.00049	U	0.0025	0.00049	mg/L		04/29/16 08:15	05/06/16 12:34	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	05/06/16 12:34	5
Boron	0.021	U	0.050	0.021	mg/L		04/29/16 08:15	05/06/16 12:34	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	05/06/16 12:34	5
Calcium	0.13	U	0.25	0.13	mg/L		04/29/16 08:15	05/06/16 12:34	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/29/16 08:15	05/06/16 12:34	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/29/16 08:15	05/06/16 12:34	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/29/16 08:15	05/06/16 12:34	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/29/16 08:15	05/06/16 12:34	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/29/16 08:15	05/06/16 12:34	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/29/16 08:15	05/06/16 12:34	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/29/16 08:15	05/06/16 12:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/16 09:29	05/02/16 10:35	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			05/04/16 11:58	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/17/16 16:56	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/04/16 10:18	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-226	0.0284	U	(2σ+/-) 0.0354	(2σ+/-) 0.0355	1.00	0.0586	pCi/L	05/02/16 14:02	05/24/16 07:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					05/02/16 14:02	05/24/16 07:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Radium-228	0.0499	U	(2σ+/-) 0.214	(2σ+/-) 0.214	1.00	0.378	pCi/L	05/02/16 15:11	05/10/16 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					05/02/16 15:11	05/10/16 12:30	1
Y Carrier	83.7		40 - 110					05/02/16 15:11	05/10/16 12:30	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
Combined Radium 226 + 228	0.0783	U	(2σ+/-) 0.217	(2σ+/-) 0.217	5.00	0.378	pCi/L		05/24/16 20:40	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: DUP-03

Lab Sample ID: 400-120872-7

Date Collected: 04/27/16 14:10

Matrix: Water

Date Received: 04/28/16 08:30

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0050	U	0.013	0.0050	mg/L		04/29/16 08:15	04/29/16 20:46	25
Arsenic	0.0023	I	0.0063	0.0023	mg/L		04/29/16 08:15	04/29/16 20:46	25
Barium	0.051		0.013	0.0025	mg/L		04/29/16 08:15	04/29/16 20:46	25
Cadmium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	04/29/16 20:46	25
Chromium	0.0055	U	0.013	0.0055	mg/L		04/29/16 08:15	04/29/16 20:46	25
Cobalt	0.0020	U	0.013	0.0020	mg/L		04/29/16 08:15	04/29/16 20:46	25
Lead	0.0018	U	0.0063	0.0018	mg/L		04/29/16 08:15	04/29/16 20:46	25
Lithium	0.016	U	0.025	0.016	mg/L		04/29/16 08:15	04/29/16 20:46	25
Molybdenum	0.017	I	0.075	0.0043	mg/L		04/29/16 08:15	04/29/16 20:46	25
Selenium	0.0012	U	0.0063	0.0012	mg/L		04/29/16 08:15	04/29/16 20:46	25
Thallium	0.00043	U	0.0025	0.00043	mg/L		04/29/16 08:15	04/29/16 20:46	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11		1.0	0.42	mg/L		04/29/16 08:15	05/06/16 13:28	100
Calcium	270		5.0	2.5	mg/L		04/29/16 08:15	05/06/16 13:28	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0017	U	0.013	0.0017	mg/L		04/29/16 08:15	05/06/16 13:23	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/16 09:29	05/02/16 10:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		200	60	mg/L			05/04/16 12:25	100
Fluoride	0.040	I	0.10	0.032	mg/L			05/17/16 16:58	1
Sulfate	650		500	140	mg/L			05/04/16 10:50	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.73		0.238	0.411	1.00	0.0617	pCi/L	05/02/16 14:02	05/24/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/02/16 14:02	05/24/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.58		0.534	0.741	1.00	0.365	pCi/L	05/02/16 15:11	05/10/16 12:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					05/02/16 15:11	05/10/16 12:30	1
Y Carrier	86.7		40 - 110					05/02/16 15:11	05/10/16 12:30	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: DUP-03
Date Collected: 04/27/16 14:10
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-7
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	9.31		0.585	0.848	5.00	0.365	pCi/L		05/24/16 20:40	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.62				SU			04/27/16 14:10	1

- 1
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- 13
- 14

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-8
Date Collected: 05/12/16 09:20
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-8
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8100		50	34	mg/L			05/18/16 11:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.72				SU			05/12/16 09:20	1

- 1
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- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-9
Date Collected: 05/12/16 07:29
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6100		25	17	mg/L			05/18/16 11:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.02				SU			05/12/16 07:29	1

- 1
- 2
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- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-13
Date Collected: 05/11/16 14:00
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-10
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11000		50	34	mg/L			05/18/16 11:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.12				SU			05/11/16 14:00	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-14
Date Collected: 05/12/16 08:20
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-11
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5100		25	17	mg/L			05/18/16 11:56	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.75				SU			05/12/16 08:20	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: FB-02
Date Collected: 05/12/16 08:30
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-12
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/18/16 11:56	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: EB-02
Date Collected: 05/12/16 09:30
Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-13
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/18/16 11:56	1

- 1
- 2
- 3
- 4
- 5
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- 7
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- 13
- 14

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-8
Date Collected: 04/27/16 10:25
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 20:06	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	304963	05/06/16 12:52	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL2		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	304963	05/06/16 14:22	RJB	TAL PEN
Total/NA	Prep	7470A			303994	04/29/16 09:29	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304276	05/02/16 10:09	JAP	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	304706	05/04/16 12:38	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:22	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	304763	05/05/16 11:02	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:25	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:30	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/27/16 10:25	BWS	TAL PEN

Client Sample ID: MW-9
Date Collected: 04/27/16 12:40
Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 20:10	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	304963	05/06/16 12:56	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL2		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	304963	05/06/16 13:01	RJB	TAL PEN
Total/NA	Prep	7470A			303994	04/29/16 09:29	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304276	05/02/16 10:30	JAP	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	304706	05/04/16 12:25	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:46	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	304763	05/05/16 11:02	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:30	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/27/16 12:40	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: MW-13

Date Collected: 04/27/16 08:50

Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 20:15	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	304963	05/06/16 13:05	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL2		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	304963	05/06/16 13:10	RJB	TAL PEN
Total/NA	Prep	7470A			303994	04/29/16 09:29	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304276	05/02/16 10:31	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1000	304706	05/04/16 12:55	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:48	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	304763	05/05/16 11:02	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:30	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/27/16 08:50	BWS	TAL PEN

Client Sample ID: MW-14

Date Collected: 04/27/16 15:10

Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 20:33	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	304963	05/06/16 13:14	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL2		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	304963	05/06/16 13:19	RJB	TAL PEN
Total/NA	Prep	7470A			303994	04/29/16 09:29	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304276	05/02/16 10:33	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	304706	05/04/16 12:25	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:51	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	304705	05/04/16 10:50	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:30	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/27/16 15:10	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: FB-02

Lab Sample ID: 400-120872-5

Date Collected: 04/27/16 14:40

Matrix: Water

Date Received: 04/28/16 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	RA		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	304963	05/06/16 12:30	RJB	TAL PEN
Total/NA	Prep	7470A			303994	04/29/16 09:29	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304276	05/02/16 10:34	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	304706	05/04/16 11:52	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:53	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	304705	05/04/16 10:18	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:30	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL

Client Sample ID: EB-02

Lab Sample ID: 400-120872-6

Date Collected: 04/27/16 15:30

Matrix: Water

Date Received: 04/28/16 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	RA		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	304963	05/06/16 12:34	RJB	TAL PEN
Total/NA	Prep	7470A			303994	04/29/16 09:29	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304276	05/02/16 10:35	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	304706	05/04/16 11:58	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:56	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	304705	05/04/16 10:18	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252886	05/24/16 07:26	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:30	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL

Client Sample ID: DUP-03

Lab Sample ID: 400-120872-7

Date Collected: 04/27/16 14:10

Matrix: Water

Date Received: 04/28/16 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	304205	04/29/16 20:46	RJB	TAL PEN
Total Recoverable	Prep	3005A	RADL		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	304963	05/06/16 13:23	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL2		303852	04/29/16 08:15	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	304963	05/06/16 13:28	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Client Sample ID: DUP-03

Date Collected: 04/27/16 14:10

Date Received: 04/28/16 08:30

Lab Sample ID: 400-120872-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			303994	04/29/16 09:29	JAP	TAL PEN
Total/NA	Analysis	7470A		1	304276	05/02/16 10:36	JAP	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	304706	05/04/16 12:25	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	306411	05/17/16 16:58	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	304705	05/04/16 10:50	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			248815	05/02/16 14:02	MCJ	TAL SL
Total/NA	Analysis	9315		1	252609	05/24/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			248820	05/02/16 15:11	MCJ	TAL SL
Total/NA	Analysis	9320		1	250236	05/10/16 12:30	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	252972	05/24/16 20:40	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	305271	04/27/16 14:10	BWS	TAL PEN

Client Sample ID: MW-8

Date Collected: 05/12/16 09:20

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306478	05/18/16 11:56	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308078	05/12/16 09:20	MCS	TAL PEN

Client Sample ID: MW-9

Date Collected: 05/12/16 07:29

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306478	05/18/16 11:56	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308078	05/12/16 07:29	MCS	TAL PEN

Client Sample ID: MW-13

Date Collected: 05/11/16 14:00

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306478	05/18/16 11:56	CAC	TAL PEN
Total/NA	Analysis	Field Sampling		1	308078	05/11/16 14:00	MCS	TAL PEN

Client Sample ID: MW-14

Date Collected: 05/12/16 08:20

Date Received: 05/12/16 12:00

Lab Sample ID: 400-120872-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306478	05/18/16 11:56	CAC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	308078	05/12/16 08:20	MCS	TAL PEN

Client Sample ID: FB-02

Lab Sample ID: 400-120872-12

Date Collected: 05/12/16 08:30

Matrix: Water

Date Received: 05/12/16 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306478	05/18/16 11:56	CAC	TAL PEN

Client Sample ID: EB-02

Lab Sample ID: 400-120872-13

Date Collected: 05/12/16 09:30

Matrix: Water

Date Received: 05/12/16 12:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	306478	05/18/16 11:56	CAC	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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Metals

Prep Batch: 303852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-1 - DL	MW-8	Total Recoverable	Water	3005A	
400-120872-1 - RADL	MW-8	Total Recoverable	Water	3005A	
400-120872-1 - DL2	MW-8	Total Recoverable	Water	3005A	
400-120872-2 - DL	MW-9	Total Recoverable	Water	3005A	
400-120872-2 - DL2	MW-9	Total Recoverable	Water	3005A	
400-120872-2 - RADL	MW-9	Total Recoverable	Water	3005A	
400-120872-3 - RADL	MW-13	Total Recoverable	Water	3005A	
400-120872-3 - DL	MW-13	Total Recoverable	Water	3005A	
400-120872-3 - DL2	MW-13	Total Recoverable	Water	3005A	
400-120872-4 - DL	MW-14	Total Recoverable	Water	3005A	
400-120872-4 - RADL	MW-14	Total Recoverable	Water	3005A	
400-120872-4 - DL2	MW-14	Total Recoverable	Water	3005A	
400-120872-5 - RA	FB-02	Total Recoverable	Water	3005A	
400-120872-6 - RA	EB-02	Total Recoverable	Water	3005A	
400-120872-7 - DL2	DUP-03	Total Recoverable	Water	3005A	
400-120872-7 - RADL	DUP-03	Total Recoverable	Water	3005A	
400-120872-7 - DL	DUP-03	Total Recoverable	Water	3005A	
400-120881-B-10-B MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-120881-B-10-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
LCS 400-303852/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
MB 400-303852/1-A ^5	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 303994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-1	MW-8	Total/NA	Water	7470A	
400-120872-1 MS	MW-8	Total/NA	Water	7470A	
400-120872-1 MSD	MW-8	Total/NA	Water	7470A	
400-120872-2	MW-9	Total/NA	Water	7470A	
400-120872-3	MW-13	Total/NA	Water	7470A	
400-120872-4	MW-14	Total/NA	Water	7470A	
400-120872-5	FB-02	Total/NA	Water	7470A	
400-120872-6	EB-02	Total/NA	Water	7470A	
400-120872-7	DUP-03	Total/NA	Water	7470A	
LCS 400-303994/15-A	Lab Control Sample	Total/NA	Water	7470A	
MB 400-303994/14-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 304205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-1 - DL	MW-8	Total Recoverable	Water	6020	303852
400-120872-2 - DL	MW-9	Total Recoverable	Water	6020	303852
400-120872-3 - DL	MW-13	Total Recoverable	Water	6020	303852
400-120872-4 - DL	MW-14	Total Recoverable	Water	6020	303852
400-120872-7 - DL	DUP-03	Total Recoverable	Water	6020	303852
400-120881-B-10-B MS ^5	Matrix Spike	Total Recoverable	Water	6020	303852
400-120881-B-10-C MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	303852
LCS 400-303852/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	303852
MB 400-303852/1-A ^5	Method Blank	Total Recoverable	Water	6020	303852

Analysis Batch: 304276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-1	MW-8	Total/NA	Water	7470A	303994

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Metals (Continued)

Analysis Batch: 304276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-1 MS	MW-8	Total/NA	Water	7470A	303994
400-120872-1 MSD	MW-8	Total/NA	Water	7470A	303994
400-120872-2	MW-9	Total/NA	Water	7470A	303994
400-120872-3	MW-13	Total/NA	Water	7470A	303994
400-120872-4	MW-14	Total/NA	Water	7470A	303994
400-120872-5	FB-02	Total/NA	Water	7470A	303994
400-120872-6	EB-02	Total/NA	Water	7470A	303994
400-120872-7	DUP-03	Total/NA	Water	7470A	303994
LCS 400-303994/15-A	Lab Control Sample	Total/NA	Water	7470A	303994
MB 400-303994/14-A	Method Blank	Total/NA	Water	7470A	303994

Analysis Batch: 304963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-1 - RADL	MW-8	Total Recoverable	Water	6020	303852
400-120872-1 - DL2	MW-8	Total Recoverable	Water	6020	303852
400-120872-2 - RADL	MW-9	Total Recoverable	Water	6020	303852
400-120872-2 - DL2	MW-9	Total Recoverable	Water	6020	303852
400-120872-3 - RADL	MW-13	Total Recoverable	Water	6020	303852
400-120872-3 - DL2	MW-13	Total Recoverable	Water	6020	303852
400-120872-4 - RADL	MW-14	Total Recoverable	Water	6020	303852
400-120872-4 - DL2	MW-14	Total Recoverable	Water	6020	303852
400-120872-5 - RA	FB-02	Total Recoverable	Water	6020	303852
400-120872-6 - RA	EB-02	Total Recoverable	Water	6020	303852
400-120872-7 - RADL	DUP-03	Total Recoverable	Water	6020	303852
400-120872-7 - DL2	DUP-03	Total Recoverable	Water	6020	303852
LCS 400-303852/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	303852
MB 400-303852/1-A ^5	Method Blank	Total Recoverable	Water	6020	303852

General Chemistry

Analysis Batch: 304705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-4	MW-14	Total/NA	Water	SM 4500 SO4 E	
400-120872-5	FB-02	Total/NA	Water	SM 4500 SO4 E	
400-120872-6	EB-02	Total/NA	Water	SM 4500 SO4 E	
400-120872-7	DUP-03	Total/NA	Water	SM 4500 SO4 E	
400-121003-A-10 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-121076-B-8 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-121076-B-8 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
LCS 400-304705/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-304705/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 304706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-1	MW-8	Total/NA	Water	SM 4500 CI- E	
400-120872-2	MW-9	Total/NA	Water	SM 4500 CI- E	
400-120872-3	MW-13	Total/NA	Water	SM 4500 CI- E	
400-120872-4	MW-14	Total/NA	Water	SM 4500 CI- E	
400-120872-5	FB-02	Total/NA	Water	SM 4500 CI- E	
400-120872-6	EB-02	Total/NA	Water	SM 4500 CI- E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

General Chemistry (Continued)

Analysis Batch: 304706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-7	DUP-03	Total/NA	Water	SM 4500 Cl- E	
400-121076-A-11 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-121076-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-121076-B-12 DU	Duplicate	Total/NA	Water	SM 4500 Cl- E	
460-112676-J-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
460-112676-L-3 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
LCS 400-304706/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MB 400-304706/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 304763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-1	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-120872-2	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-120872-3	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-121035-C-14 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-121076-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-121076-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
LCS 400-304763/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-304763/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 306411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-A-4 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-120841-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-120872-1	MW-8	Total/NA	Water	SM 4500 F C	
400-120872-1 DU	MW-8	Total/NA	Water	SM 4500 F C	
400-120872-2	MW-9	Total/NA	Water	SM 4500 F C	
400-120872-3	MW-13	Total/NA	Water	SM 4500 F C	
400-120872-4	MW-14	Total/NA	Water	SM 4500 F C	
400-120872-5	FB-02	Total/NA	Water	SM 4500 F C	
400-120872-6	EB-02	Total/NA	Water	SM 4500 F C	
400-120872-7	DUP-03	Total/NA	Water	SM 4500 F C	
LCS 400-306411/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 400-306411/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 306478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-8	MW-8	Total/NA	Water	SM 2540C	
400-120872-8 DU	MW-8	Total/NA	Water	SM 2540C	
400-120872-9	MW-9	Total/NA	Water	SM 2540C	
400-120872-9 DU	MW-9	Total/NA	Water	SM 2540C	
400-120872-10	MW-13	Total/NA	Water	SM 2540C	
400-120872-11	MW-14	Total/NA	Water	SM 2540C	
400-120872-12	FB-02	Total/NA	Water	SM 2540C	
400-120872-13	EB-02	Total/NA	Water	SM 2540C	
LCS 400-306478/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 400-306478/1	Method Blank	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Rad

Prep Batch: 248815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-C-10-F DU	Duplicate	Total/NA	Water	PrecSep-21	
400-120872-1	MW-8	Total/NA	Water	PrecSep-21	
400-120872-2	MW-9	Total/NA	Water	PrecSep-21	
400-120872-3	MW-13	Total/NA	Water	PrecSep-21	
400-120872-4	MW-14	Total/NA	Water	PrecSep-21	
400-120872-5	FB-02	Total/NA	Water	PrecSep-21	
400-120872-6	EB-02	Total/NA	Water	PrecSep-21	
400-120872-7	DUP-03	Total/NA	Water	PrecSep-21	
LCS 160-248815/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
MB 160-248815/1-A	Method Blank	Total/NA	Water	PrecSep-21	

Prep Batch: 248820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120841-C-10-E DU	Duplicate	Total/NA	Water	PrecSep_0	
400-120872-1	MW-8	Total/NA	Water	PrecSep_0	
400-120872-2	MW-9	Total/NA	Water	PrecSep_0	
400-120872-3	MW-13	Total/NA	Water	PrecSep_0	
400-120872-4	MW-14	Total/NA	Water	PrecSep_0	
400-120872-5	FB-02	Total/NA	Water	PrecSep_0	
400-120872-6	EB-02	Total/NA	Water	PrecSep_0	
400-120872-7	DUP-03	Total/NA	Water	PrecSep_0	
LCS 160-248820/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
MB 160-248820/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 305271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-1	MW-8	Total/NA	Water	Field Sampling	
400-120872-2	MW-9	Total/NA	Water	Field Sampling	
400-120872-3	MW-13	Total/NA	Water	Field Sampling	
400-120872-4	MW-14	Total/NA	Water	Field Sampling	
400-120872-7	DUP-03	Total/NA	Water	Field Sampling	

Analysis Batch: 308078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-120872-8	MW-8	Total/NA	Water	Field Sampling	
400-120872-9	MW-9	Total/NA	Water	Field Sampling	
400-120872-10	MW-13	Total/NA	Water	Field Sampling	
400-120872-11	MW-14	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-303852/1-A ^5
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 303852

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/29/16 08:15	04/29/16 18:46	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/29/16 08:15	04/29/16 18:46	5
Barium	0.00049	U	0.0025	0.00049	mg/L		04/29/16 08:15	04/29/16 18:46	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	04/29/16 18:46	5
Calcium	0.13	U	0.25	0.13	mg/L		04/29/16 08:15	04/29/16 18:46	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/29/16 08:15	04/29/16 18:46	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/29/16 08:15	04/29/16 18:46	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/29/16 08:15	04/29/16 18:46	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/29/16 08:15	04/29/16 18:46	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/29/16 08:15	04/29/16 18:46	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/29/16 08:15	04/29/16 18:46	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/29/16 08:15	04/29/16 18:46	5

Lab Sample ID: MB 400-303852/1-A ^5
Matrix: Water
Analysis Batch: 304963

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 303852

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		04/29/16 08:15	05/06/16 12:21	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		04/29/16 08:15	05/06/16 12:21	5
Barium	0.00049	U	0.0025	0.00049	mg/L		04/29/16 08:15	05/06/16 12:21	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	05/06/16 12:21	5
Boron	0.021	U	0.050	0.021	mg/L		04/29/16 08:15	05/06/16 12:21	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		04/29/16 08:15	05/06/16 12:21	5
Calcium	0.13	U	0.25	0.13	mg/L		04/29/16 08:15	05/06/16 12:21	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		04/29/16 08:15	05/06/16 12:21	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		04/29/16 08:15	05/06/16 12:21	5
Lead	0.00035	U	0.0013	0.00035	mg/L		04/29/16 08:15	05/06/16 12:21	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		04/29/16 08:15	05/06/16 12:21	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		04/29/16 08:15	05/06/16 12:21	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		04/29/16 08:15	05/06/16 12:21	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		04/29/16 08:15	05/06/16 12:21	5

Lab Sample ID: LCS 400-303852/2-A ^1
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 303852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0542		mg/L		108	80 - 120
Arsenic	0.0500	0.0506		mg/L		101	80 - 120
Barium	0.0500	0.0466		mg/L		93	80 - 120
Cadmium	0.0500	0.0523		mg/L		105	80 - 120
Calcium	5.00	4.64		mg/L		93	80 - 120
Chromium	0.0500	0.0493		mg/L		99	80 - 120
Cobalt	0.0500	0.0513		mg/L		103	80 - 120
Lead	0.0500	0.0504		mg/L		101	80 - 120
Lithium	0.0500	0.0535		mg/L		107	80 - 120
Molybdenum	0.0500	0.0504		mg/L		101	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

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

Lab Sample ID: LCS 400-303852/2-A ^1
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 303852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.0500	0.0516		mg/L		103	80 - 120
Thallium	0.0100	0.0102		mg/L		102	80 - 120

Lab Sample ID: LCS 400-303852/2-A ^1
Matrix: Water
Analysis Batch: 304963

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 303852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0537		mg/L		107	80 - 120
Arsenic	0.0500	0.0521		mg/L		104	80 - 120
Barium	0.0500	0.0475		mg/L		95	80 - 120
Beryllium	0.0500	0.0482		mg/L		96	80 - 120
Boron	0.100	0.0995		mg/L		99	80 - 120
Cadmium	0.0500	0.0524		mg/L		105	80 - 120
Calcium	5.00	4.98		mg/L		100	80 - 120
Chromium	0.0500	0.0504		mg/L		101	80 - 120
Cobalt	0.0500	0.0491		mg/L		98	80 - 120
Lead	0.0500	0.0503		mg/L		101	80 - 120
Lithium	0.0500	0.0522		mg/L		104	80 - 120
Molybdenum	0.0500	0.0502		mg/L		100	80 - 120
Selenium	0.0500	0.0511		mg/L		102	80 - 120
Thallium	0.0100	0.0103		mg/L		103	80 - 120

Lab Sample ID: 400-120881-B-10-B MS ^5
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 303852

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0010	U	0.0500	0.0633	J3	mg/L		127	75 - 125
Arsenic	0.014		0.0500	0.0660		mg/L		104	75 - 125
Barium	0.44		0.0500	0.488		mg/L		99	75 - 125
Beryllium	0.00034	U	0.0500	0.0441		mg/L		88	75 - 125
Boron	0.045	I	0.100	0.150		mg/L		105	75 - 125
Cadmium	0.00034	U	0.0500	0.0533		mg/L		107	75 - 125
Calcium	160		5.00	167	J3	mg/L		52	75 - 125
Chromium	0.0011	U	0.0500	0.0504		mg/L		101	75 - 125
Cobalt	0.00040	U	0.0500	0.0524		mg/L		105	75 - 125
Lead	0.00035	U	0.0500	0.0538		mg/L		108	75 - 125
Lithium	0.023		0.0500	0.0754		mg/L		105	75 - 125
Molybdenum	0.0080	I	0.0500	0.0590		mg/L		102	75 - 125
Selenium	0.00024	U	0.0500	0.0514		mg/L		103	75 - 125
Thallium	0.000085	U	0.0100	0.0106		mg/L		106	75 - 125

Lab Sample ID: 400-120881-B-10-C MSD ^5
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 303852

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.0010	U	0.0500	0.0568		mg/L		114	75 - 125	11	20

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

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

Lab Sample ID: 400-120881-B-10-C MSD ^5
Matrix: Water
Analysis Batch: 304205

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable

Prep Batch: 303852

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Arsenic	0.014		0.0500	0.0660		mg/L		104	75 - 125	0	20	
Barium	0.44		0.0500	0.483		mg/L		90	75 - 125	1	20	
Beryllium	0.00034	U	0.0500	0.0430		mg/L		86	75 - 125	3	20	
Boron	0.045	I	0.100	0.141		mg/L		95	75 - 125	6	20	
Cadmium	0.00034	U	0.0500	0.0537		mg/L		107	75 - 125	1	20	
Calcium	160		5.00	163	J3	mg/L		-24	75 - 125	2	20	
Chromium	0.0011	U	0.0500	0.0498		mg/L		100	75 - 125	1	20	
Cobalt	0.00040	U	0.0500	0.0513		mg/L		103	75 - 125	2	20	
Lead	0.00035	U	0.0500	0.0534		mg/L		107	75 - 125	1	20	
Lithium	0.023		0.0500	0.0752		mg/L		105	75 - 125	0	20	
Molybdenum	0.0080	I	0.0500	0.0574		mg/L		99	75 - 125	3	20	
Selenium	0.00024	U	0.0500	0.0523		mg/L		105	75 - 125	2	20	
Thallium	0.000085	U	0.0100	0.0104		mg/L		104	75 - 125	2	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-303994/14-A
Matrix: Water
Analysis Batch: 304276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303994

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.000070	U	0.00020	0.000070	mg/L		04/29/16 09:24	05/02/16 10:05	1

Lab Sample ID: LCS 400-303994/15-A
Matrix: Water
Analysis Batch: 304276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303994

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00101	0.00107		mg/L		106	80 - 120

Lab Sample ID: 400-120872-1 MS
Matrix: Water
Analysis Batch: 304276

Client Sample ID: MW-8
Prep Type: Total/NA
Prep Batch: 303994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Mercury	0.000070	U	0.00201	0.00226		mg/L		112	80 - 120

Lab Sample ID: 400-120872-1 MSD
Matrix: Water
Analysis Batch: 304276

Client Sample ID: MW-8
Prep Type: Total/NA
Prep Batch: 303994

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Mercury	0.000070	U	0.00201	0.00226		mg/L		112	80 - 120	0	20

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

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

Lab Sample ID: MB 400-306478/1
Matrix: Water
Analysis Batch: 306478

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/18/16 11:56	1

Lab Sample ID: LCS 400-306478/2
Matrix: Water
Analysis Batch: 306478

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	270		mg/L		92	78 - 122

Lab Sample ID: 400-120872-8 DU
Matrix: Water
Analysis Batch: 306478

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	8100		8060		mg/L		0	5

Lab Sample ID: 400-120872-9 DU
Matrix: Water
Analysis Batch: 306478

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	6100		5950		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-304706/6
Matrix: Water
Analysis Batch: 304706

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			05/04/16 11:35	1

Lab Sample ID: LCS 400-304706/7
Matrix: Water
Analysis Batch: 304706

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	32.0		mg/L		107	90 - 110

Lab Sample ID: 400-121076-A-11 MS
Matrix: Water
Analysis Batch: 304706

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	4.4		10.0	16.4		mg/L		120	73 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

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

Lab Sample ID: 400-121076-A-11 MSD
Matrix: Water
Analysis Batch: 304706

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	4.4		10.0	16.3		mg/L		119	73 - 120	1	8

Lab Sample ID: 460-112676-J-3 MSD
Matrix: Water
Analysis Batch: 304706

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			500	707		mg/L					

Lab Sample ID: 460-112676-L-3 MS
Matrix: Water
Analysis Batch: 304706

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	RPD	RPD Limit
Chloride			500	697		mg/L					

Lab Sample ID: 400-121076-B-12 DU
Matrix: Water
Analysis Batch: 304706

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
Chloride	9.3			9.36		mg/L				0.8	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-306411/3
Matrix: Water
Analysis Batch: 306411

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			05/17/16 15:43	1

Lab Sample ID: LCS 400-306411/4
Matrix: Water
Analysis Batch: 306411

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	4.00	4.36		mg/L		109	90 - 110		

Lab Sample ID: 400-120841-A-4 MS
Matrix: Water
Analysis Batch: 306411

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	RPD	RPD Limit
Fluoride	0.040	I	1.00	1.01		mg/L		97	75 - 125		

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-120841-A-4 MSD
Matrix: Water
Analysis Batch: 306411

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	I	1.00	0.970		mg/L		93	75 - 125	4	4

Lab Sample ID: 400-120872-1 DU
Matrix: Water
Analysis Batch: 306411

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

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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-304705/6
Matrix: Water
Analysis Batch: 304705

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			05/04/16 09:56	1

Lab Sample ID: LCS 400-304705/7
Matrix: Water
Analysis Batch: 304705

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	14.5		mg/L		97	90 - 110

Lab Sample ID: 400-121076-B-8 MS
Matrix: Water
Analysis Batch: 304705

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	U	1000	10.7	J3	mg/L		1	77 - 128

Lab Sample ID: 400-121076-B-8 MSD
Matrix: Water
Analysis Batch: 304705

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	U	1000	10.7	J3	mg/L		1	77 - 128	0	5

Lab Sample ID: 400-121003-A-10 DU
Matrix: Water
Analysis Batch: 304705

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	120		120		mg/L		2	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

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

Lab Sample ID: MB 400-304763/6
Matrix: Water
Analysis Batch: 304763

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			05/05/16 09:04	1

Lab Sample ID: LCS 400-304763/7
Matrix: Water
Analysis Batch: 304763

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	14.5		mg/L		97	90 - 110

Lab Sample ID: 400-121076-A-1 MS
Matrix: Water
Analysis Batch: 304763

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	5.1		10.0	14.1		mg/L		90	77 - 128

Lab Sample ID: 400-121076-A-1 MSD
Matrix: Water
Analysis Batch: 304763

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	5.1		10.0	14.4		mg/L		93	77 - 128	2	5

Lab Sample ID: 400-121035-C-14 DU
Matrix: Water
Analysis Batch: 304763

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	U	1.4	U	mg/L		NC	5

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-248815/1-A
Matrix: Water
Analysis Batch: 252886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248815

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.001459	U	0.0408	0.0408	1.00	0.0785	pCi/L	05/02/16 14:02	05/24/16 07:23	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110	05/02/16 14:02	05/24/16 07:23	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-248815/2-A
Matrix: Water
Analysis Batch: 252886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248815

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.2	15.12		1.44	1.00	0.0752	pCi/L	135	68 - 137
Carrier	%Yield	LCS Qualifier	LCS	Limits					
Ba Carrier	88.0			40 - 110					

Lab Sample ID: 400-120841-C-10-F DU
Matrix: Water
Analysis Batch: 252886

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 248815

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	3.33		3.716		0.411	1.00	0.0600	pCi/L	0.49	1
Carrier	%Yield	DU Qualifier	DU	Limits						
Ba Carrier	92.6			40 - 110						

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-248820/1-A
Matrix: Water
Analysis Batch: 250236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 248820

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1955	U	0.234	0.234	1.00	0.386	pCi/L	05/02/16 15:11	05/10/16 12:28	1
Carrier	%Yield	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)				Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		40 - 110					05/02/16 15:11	05/10/16 12:28	1
Y Carrier	87.1		40 - 110					05/02/16 15:11	05/10/16 12:28	1

Lab Sample ID: LCS 160-248820/2-A
Matrix: Water
Analysis Batch: 250236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 248820

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	15.2	17.55		1.87	1.00	0.412	pCi/L	116	56 - 140
Carrier	%Yield	LCS Qualifier	LCS	Limits					
Ba Carrier	88.0			40 - 110					
Y Carrier	83.4			40 - 110					

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

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

Lab Sample ID: 400-120841-C-10-E DU
Matrix: Water
Analysis Batch: 250236

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 248820

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.389		0.6262		0.288	1.00	0.404	pCi/L	0.44	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	92.6		40 - 110
Y Carrier	83.7		40 - 110

- 1
- 2
- 3
- 4
- 5
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody Record



Search: Shane Boag Lab PIV: Whitire, Cheyenne R 400-120872 COC
 Phone: 850-336-0192 E-Mail: cheyenne.whitire@testamericainc.com
 Company: Hopping Greens & Sams
 Address: 119 S Monroe St site 300
 City: Tallahassee
 State, Zip: FL, 32301
 Phone: 850-444-6427(Tel)
 Email: carrie@hgsllaw.com
 Project #: 40006609
 Project Name: CCR Smith Plant Event Desc: CCR Smith Plant
 Site: Florida

Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required
 WO #:
 9316_Ra226, 9320_Ra228
 SM4500, CE, SM4500, S04, E
 Field Sampling - Field Sampling Parameters
 6020, 7470A
 2540C - Total Dissolved Solids
 4500, F, C - Fluoride

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 - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - ph 4-5
 X - EDTA
 Z - other (specify)

Special Instructions/Note:
 SB

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Trace, A=Air)	SM4500, CE, SM4500, S04, E	Field Sampling - Field Sampling Parameters	6020, 7470A	2540C - Total Dissolved Solids	4500, F, C - Fluoride
MW-2	4-25-16	1505	G	Water	X	X	X	X	X
MW-3	4-25-16	1645	G	Water	X	X	X	X	X
MW-8	4-27-16	1085	G	Water	X	X	X	X	X
MW-14	4-27-16	1510	G	Water	X	X	X	X	X

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Radiological
 Poison B Unknown

Deliverable Requested: I, II, III, IV, Other (specify)
 Return To Client Disposal By Lab Archive For _____ Months
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Empty Kit Relinquished by:
 Relinquished by: Shane Boag Date/Time: 4-28-16 0830 Company: RDH&S
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes Custody Seal No.: _____
 Remarks: Shane Boag, 1,800



Client Information
 Client Contact: Carl Eldred
 Company: Hopping, Greens & Sams
 Address: 119 S Monroe St ste 300
 City: Tallahassee
 State, Zip: FL, 32301
 Phone: 850-444-6427 (Tel)
 Email: carle@hgslaw.com
 Project Name: CCR Smith Plant Event Desc: CCR Smith Plant
 Site: Florida

Lab Pmt: Whitmire, Cheyenne R
E-Mail: cheyenne.whitmire@testamericainc.com
Phone: 850-336-0194

Carrier Tracking No(s):
 COC No: 400-53431-23565-2
 Page: Page 2 of 2
 Job #:

Analysis Requested
 9315_Fa226_9320_Fa228
 SM4500_C1_E_SM4500_SO4_E
 Field Sampling - Field Sampling Parameters
 6020, 7470A
 2640C - Total Dissolved Solids
 4500_F_C - Fluoride

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:

Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water, BT=trace, AVAL)	Field Sampling - Field Sampling Parameters	SM4500_C1_E_SM4500_SO4_E	6020, 7470A	2640C - Total Dissolved Solids	4500_F_C - Fluoride
FB-01 - SB	4-27-16	1440	G	Water	X	X	X		
FB-02	4-27-16	1530	G	Water	X	X	X		
EB-01 - SB	4-27-16	1425	G	Water	X	X	X		
EB-02	4-27-16	1410	G	Water	X	X	X		
DUP-04 - SB									
DUP-05									

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]
 Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]

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/OC Requirements:

Date: 4-28-16 0830
 Date/Time: 4-28-16 830
 Date/Time: [Signature]
 Date/Time: [Signature]

Company: KDHENV.
 Company: [Signature]
 Company: [Signature]
 Company: [Signature]

Cooler Temperature (Specify Cooler Remarks): [Signature]



Chain of Custody Record

Client Information: **Brett Scales**
 Client Contact: **Kristi Mitchell**
 Company: **Gulf Power Company**
 Address: **BIN 731 One Energy Place**
 City: **Pensacola**
 State, Zip: **FL, 32520**
 Phone: **850-444-6427 (Tel)**
 Email: **krmitch@southernco.com**
 Project Name: **CCR Smith Plant**
 Site: **Florida**

Lab P.M.: **Whitire, Cheyenne R**
 E-Mail: **cheyenne.whitire@testamericainc.com**
 Sample: **250C - Total Dissolved Solids**
 Carrier Tracking No(s):
 Lab No: **400-55514-24208.1**
 Page: **Page 1 of 2**
 Job #:

Due Date Requested:
 TAT Requested (days):
 PO #: **Purchase Order not required**
 WO #: **40006609**
 Project #: **SSOW#:**

Sample Identification	Sample Date	Sample Time	Sample Type (C=can, G=grab)	Matrix (Water, Solid, Unknown)	Preservation Code	Analysis Requested	Special Instructions/Note
mw-02	5/11/16	1024	G	Water			6.64
Dup-01	5/11/16	0924	G	Water			6.64
mw-03	5/11/16	1127	G	Water			5.12
mw-06	5/11/16	1227	G	Water			4.93
mw-07	5/11/16	1352	G	Water			6.15
Field Blank - 01	5/11/16	1525	G	Water			6.38
mw-11	5/11/16	1514	G	Water			5.92
mw-12	5/11/16	1240	G	Water			
EB-01	5/11/16	1250	G	Water			
MW-13	5/11/16	1400	G	Water			7.12
MW-10	5/11/16	1556	G	Water			5.48

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/OC Requirements:
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: **5/12/16** Time: **1200** Company: **RDH**
 Relinquished by: _____ Date: _____ Time: _____ Company: _____
 Relinquished by: _____ Date: _____ Time: _____ Company: _____

Preservation Codes:
 M - Hexane
 N - None
 O - AsHClO₄
 P - Na₂O₄S
 Q - Na₂SO₃
 R - Na₂SO₃
 S - H₂SO₄
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:

Analysis Requested:
 250C - Total Dissolved Solids

Special Instructions/Note:
 6.64
 6.64
 5.12
 4.93
 6.15
 6.38
 5.92
 7.12
 5.48

Received by: _____ Date: _____ Time: _____ Company: _____
 Received by: _____ Date: _____ Time: _____ Company: _____
 Received by: _____ Date: _____ Time: _____ Company: _____
 (Cooler Temperature(s), °C and Other Remarks: **2.9°C**)



Chain of Custody Record

Lab Pmt: Whitire, Cheyenne R
 E-Mail: cheyenne.whitire@te
 Sampler: Brent Surles
 Phone: 850 380 3488

DOC No: 400-55514-24208.2
 Page: Page 2 of 2
 Job #:

Client Information
 Kristi Mitchell
 Company: Gulf Power Company
 Address: BIN 731 One Energy Place
 City: Pensacola
 State, Zip: FL, 32520
 Phone: 850-444-6427 (Tel)
 Email: krmitch@southernco.com
 Project Name: CCR Smith Plant
 Site: Florida
 Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required
 WO #:
 Project #: 40006609
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Liquid, Solid, On-water, In-water, AAS)	Preservation Codes	Special Instructions/Notes
MW-9	5/12/16	0729	G	Water		502
MW-14	5/12/16	0820	G	Water		675
MW-8	5/12/16	0920	G	Water		472
Dup-02	5/12/16	0629	G	Water		502
EQ Blank-02	5/12/16	0930	G	Water		
Field Blank-02	5/12/16	0830	G	Water		
				Water		
				Water		
				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/OC Requirements:
 Poison B Unknown Radiological
 Non-Hazard Flammable Skin Irritant
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Requisitioned by: _____ Date: 5/12/16
 Requisitioned by: _____ Date/Time: 1200
 Requisitioned by: _____ Date/Time:
 Requisitioned by: _____ Date/Time:

Custody Seal No.: _____
 A Yes A No



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-120872-1

Login Number: 120872

List Number: 1

Creator: Crawford, Lauren E

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	0.7°C, 1.8°C IR-6, 2.4°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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

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	06-30-16
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
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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-120872-1

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: 400-123744-1

Client Project/Site: CCR Smith Plant

For:

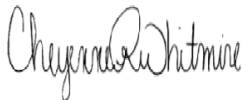
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

8/10/2016 3:26:06 PM

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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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Job ID: 400-123744-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-123744-1

RAD

Method(s) PrecSep_0: Radium-228 prep batch 160-259565: The following samples smell like sulfur. Samples 400-123744-4,8,10, 11 and 13 are all yellow in color. MW-06 (400-123744-3), MW-07 (400-123744-4), MW-08 (400-123744-5), MW-09 (400-123744-6), MW-10 (400-123744-7), MW-11 (400-123744-8), MW-13 (400-123744-10), MW-14 (400-123744-11), DUP-01 (400-123744-12) and DUP-02 (400-123744-13)

Method(s) PrecSep_0: Radium-228 prep batch 160-259565: A 1/2 gallon was received for each sample. The samples were weighed at the method required volume of 1L, and a laboratory control sample and laboratory control sample duplicate were used instead of a sample duplicate. MW-02 (400-123744-1), MW-03 (400-123744-2), MW-06 (400-123744-3), MW-07 (400-123744-4), MW-08 (400-123744-5), MW-09 (400-123744-6), MW-10 (400-123744-7), MW-11 (400-123744-8), MW-12 (400-123744-9), MW-13 (400-123744-10), MW-14 (400-123744-11), DUP-01 (400-123744-12), DUP-02 (400-123744-13), EQ BLANK-01 (400-123744-14), FIELD BLANK-01 (400-123744-15), EQ BLANK-02 (400-123744-16) and FIELD BLANK-02 (400-123744-17)

Method(s) PrecSep-21: Radium-226 prep batch 160-259563: The following samples smell like sulfur. Samples 400-123744-4,8,10, 11, and 13 are all yellow in color. MW-06 (400-123744-3), MW-07 (400-123744-4), MW-08 (400-123744-5), MW-09 (400-123744-6), MW-10 (400-123744-7), MW-11 (400-123744-8), MW-13 (400-123744-10), MW-14 (400-123744-11) and DUP-02 (400-123744-13)

Method(s) PrecSep-21: Radium-226 prep batch 160-259563: A 1/2 gallon was received for each sample. The samples were weighed at the method required volume of 1L, and a laboratory control sample and laboratory control sample duplicate were used instead of a sample duplicate. MW-02 (400-123744-1), MW-03 (400-123744-2), MW-06 (400-123744-3), MW-07 (400-123744-4), MW-08 (400-123744-5), MW-09 (400-123744-6), MW-10 (400-123744-7), MW-11 (400-123744-8), MW-12 (400-123744-9), MW-13 (400-123744-10), MW-14 (400-123744-11), DUP-01 (400-123744-12), DUP-02 (400-123744-13), EQ BLANK-01 (400-123744-14), FIELD BLANK-01 (400-123744-15), EQ BLANK-02 (400-123744-16) and FIELD BLANK-02 (400-123744-17)

Metals

Method(s) 6020: The matrix spike (MS) recoveries for preparation batch 312512 and analytical batch 314053 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06 (400-123744-3), MW-07 (400-123744-4), MW-08 (400-123744-5), MW-09 (400-123744-6), MW-10 (400-123744-7), MW-11 (400-123744-8), MW-13 (400-123744-10), MW-14 (400-123744-11) and DUP-02 (400-123744-13). Elevated reporting limits (RLs) are provided.

Method(s) 6020: Due to matrix effects, some internal standards (ISTD) recovered high outside laboratory upper limit (>120%). Additional dilution to return ISTD to control would elevate reporting limits beyond acceptable target detection limits.

General Chemistry

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 312645 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-02

Lab Sample ID: 400-123744-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.026		0.0025	0.00049	mg/L	5		6020	Total
Boron	0.032	I	0.050	0.021	mg/L	5		6020	Recoverable Total
Calcium	7.7		0.25	0.13	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	42		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
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	6.6		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	5.35				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 400-123744-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.016		0.0025	0.00049	mg/L	5		6020	Total
Calcium	1.7		0.25	0.13	mg/L	5		6020	Recoverable Total
Chromium	0.0021	I	0.0025	0.0011	mg/L	5		6020	Recoverable Total
Lithium	0.010		0.0050	0.0032	mg/L	5		6020	Total
Mercury	0.000071	I	0.00020	0.000070	mg/L	1		7470A	Recoverable Total/NA
Total Dissolved Solids	24		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
Field pH	4.94				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-06

Lab Sample ID: 400-123744-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0014		0.0013	0.00046	mg/L	5		6020	Total
Barium	0.066		0.0025	0.00049	mg/L	5		6020	Recoverable Total
Beryllium	0.0017	I	0.0025	0.00034	mg/L	5		6020	Recoverable Total
Lithium	0.020		0.0050	0.0032	mg/L	5		6020	Total
Selenium	0.00043	I	0.0013	0.00024	mg/L	5		6020	Recoverable Total
Boron - DL	7.8		2.0	0.84	mg/L	200		6020	Recoverable Total
Calcium - DL	400		10	5.0	mg/L	200		6020	Recoverable Total
Total Dissolved Solids	7600		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	4000		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Fluoride	0.050	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	680		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	4.82				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-07

Lab Sample ID: 400-123744-4

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-07 (Continued)

Lab Sample ID: 400-123744-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0014		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.055		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum	0.0061	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00032	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	2.6		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	180		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3700		17	11	mg/L	1		SM 2540C	Total/NA
Chloride	1600		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	580		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.09				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 400-123744-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0014		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.066		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.0015	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0089		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.00039	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	15		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	560		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	6900		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	3700		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Sulfate	910		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	3.85				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-09

Lab Sample ID: 400-123744-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0026		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.083		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00069	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0072		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.00040	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	9.3		2.0	0.84	mg/L	200		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-09 (Continued)

Lab Sample ID: 400-123744-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium - DL	390		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	5900		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	780		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.29				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-123744-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0025		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00057	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0069		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0027	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00026	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	9.7		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	570		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	6900		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	3200		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	860		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.25				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-123744-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0018	I	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0029		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.0098	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00036	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Arsenic - DL	0.029		0.0063	0.0023	mg/L	25		6020	Total Recoverable
Boron - DL	3.9		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	160		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	5100		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2900		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Sulfate	330		250	70	mg/L	50		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-11 (Continued)

Lab Sample ID: 400-123744-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.76				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-123744-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.014		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.083		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	29		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium	0.0085		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	4200		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	170		20	6.0	mg/L	10		SM 4500 Cl- E	Total/NA
Fluoride	0.080	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1.6	I	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.04				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-123744-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00051	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Lithium	0.18		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0058	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	16		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	870		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	5400		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	4300		2000	600	mg/L	1000		SM 4500 Cl- E	Total/NA
Fluoride	0.050	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1200		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-123744-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0027		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.050		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum	0.017		0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00024	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	9.0		2.0	0.84	mg/L	200		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-14 (Continued)

Lab Sample ID: 400-123744-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium - DL	260		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	5400		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2700		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	580		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.69				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-123744-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.026		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.16		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	8.2		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	62		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
Fluoride	0.050	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	6.8		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	5.35				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 400-123744-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0013		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.057		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum	0.0062	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	2.7		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	190		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3800		17	11	mg/L	1		SM 2540C	Total/NA
Chloride	1600		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	570		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.09				SU	1		Field Sampling	Total/NA

Client Sample ID: EQ BLANK-01

Lab Sample ID: 400-123744-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.00031	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable

Client Sample ID: FIELD BLANK-01

Lab Sample ID: 400-123744-15

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: EQ BLANK-02

Lab Sample ID: 400-123744-16

No Detections.

Client Sample ID: FIELD BLANK-02

Lab Sample ID: 400-123744-17

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-123744-1	MW-02	Water	06/27/16 11:36	06/29/16 14:35
400-123744-2	MW-03	Water	06/27/16 13:10	06/29/16 14:35
400-123744-3	MW-06	Water	06/28/16 09:35	06/29/16 14:35
400-123744-4	MW-07	Water	06/28/16 07:41	06/29/16 14:35
400-123744-5	MW-08	Water	06/28/16 10:54	06/29/16 14:35
400-123744-6	MW-09	Water	06/28/16 12:42	06/29/16 14:35
400-123744-7	MW-10	Water	06/28/16 12:55	06/29/16 14:35
400-123744-8	MW-11	Water	06/28/16 13:48	06/29/16 14:35
400-123744-9	MW-12	Water	06/27/16 15:25	06/29/16 14:35
400-123744-10	MW-13	Water	06/28/16 09:26	06/29/16 14:35
400-123744-11	MW-14	Water	06/28/16 11:20	06/29/16 14:35
400-123744-12	DUP-01	Water	06/27/16 10:36	06/29/16 14:35
400-123744-13	DUP-02	Water	06/28/16 06:41	06/29/16 14:35
400-123744-14	EQ BLANK-01	Water	06/28/16 13:25	06/29/16 14:35
400-123744-15	FIELD BLANK-01	Water	06/28/16 11:15	06/29/16 14:35
400-123744-16	EQ BLANK-02	Water	06/28/16 13:50	06/29/16 14:35
400-123744-17	FIELD BLANK-02	Water	06/28/16 14:05	06/29/16 14:35

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-02
Date Collected: 06/27/16 11:36
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 17:34	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 17:34	5
Barium	0.026		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 17:34	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:34	5
Boron	0.032	I	0.050	0.021	mg/L		07/06/16 08:30	07/12/16 17:34	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:34	5
Calcium	7.7		0.25	0.13	mg/L		07/06/16 08:30	07/12/16 17:34	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 17:34	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 17:34	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 17:34	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 17:34	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 17:34	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 17:34	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 17:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 13:41	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			07/01/16 11:36	1
Chloride	17		2.0	0.60	mg/L			06/30/16 10:45	1
Fluoride	0.040	I	0.10	0.032	mg/L			06/30/16 11:31	1
Sulfate	6.6		5.0	1.4	mg/L			07/01/16 11:51	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.69		0.313	0.396	1.00	0.143	pCi/L	07/07/16 11:44	07/29/16 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					07/07/16 11:44	07/29/16 10:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.343	U	0.260	0.262	1.00	0.406	pCi/L	07/07/16 11:44	07/27/16 16:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					07/07/16 11:44	07/27/16 16:36	1
Y Carrier	84.5		40 - 110					07/07/16 11:44	07/27/16 16:36	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	3.04		0.407	0.475	5.00	0.406	pCi/L		07/30/16 00:23	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-02
Date Collected: 06/27/16 11:36
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-1
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.35				SU			06/27/16 11:36	1

- 1
- 2
- 3
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- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-03
Date Collected: 06/27/16 13:10
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 17:52	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 17:52	5
Barium	0.016		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 17:52	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:52	5
Boron	0.021	U	0.050	0.021	mg/L		07/06/16 08:30	07/12/16 17:52	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:52	5
Calcium	1.7		0.25	0.13	mg/L		07/06/16 08:30	07/12/16 17:52	5
Chromium	0.0021	I	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 17:52	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 17:52	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 17:52	5
Lithium	0.010		0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 17:52	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 17:52	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 17:52	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 17:52	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000071	I	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	24		5.0	3.4	mg/L			07/01/16 11:36	1
Chloride	11		2.0	0.60	mg/L			06/30/16 10:45	1
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 11:34	1
Sulfate	1.4	U	5.0	1.4	mg/L			07/01/16 11:51	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.08		0.191	0.214	1.00	0.119	pCi/L	07/07/16 11:44	07/29/16 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					07/07/16 11:44	07/29/16 10:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0776	U	0.235	0.235	1.00	0.443	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	82.2		40 - 110					07/07/16 11:44	07/27/16 16:37	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		0.303	0.318	5.00	0.443	pCi/L		07/30/16 00:23	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-03
Date Collected: 06/27/16 13:10
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-2
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.94				SU			06/27/16 13:10	1

- 1
- 2
- 3
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- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-06
Date Collected: 06/28/16 09:35
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 18:14	5
Arsenic	0.0014		0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 18:14	5
Barium	0.066		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 18:14	5
Beryllium	0.0017	I	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:14	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:14	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 18:14	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 18:14	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 18:14	5
Lithium	0.020		0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 18:14	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 18:14	5
Selenium	0.00043	I	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 18:14	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 18:14	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.8		2.0	0.84	mg/L		07/06/16 08:30	07/13/16 11:50	200
Calcium	400		10	5.0	mg/L		07/06/16 08:30	07/13/16 11:50	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7600		50	34	mg/L			07/01/16 11:36	1
Chloride	4000		240	72	mg/L			06/30/16 11:59	120
Fluoride	0.050	I	0.10	0.032	mg/L			06/30/16 11:37	1
Sulfate	680		500	140	mg/L			07/01/16 12:24	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	16.4		0.774	1.67	1.00	0.186	pCi/L	07/07/16 11:44	07/29/16 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					07/07/16 11:44	07/29/16 10:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	24.4		1.20	2.55	1.00	0.475	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	82.6		40 - 110					07/07/16 11:44	07/27/16 16:37	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-06
Date Collected: 06/28/16 09:35
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-3
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	40.9		1.43	3.05	5.00	0.475	pCi/L		07/30/16 00:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.82				SU			06/28/16 09:35	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-07

Date Collected: 06/28/16 07:41

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-4

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 18:19	5
Arsenic	0.0014		0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 18:19	5
Barium	0.055		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 18:19	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:19	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:19	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 18:19	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 18:19	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 18:19	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 18:19	5
Molybdenum	0.0061	I	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 18:19	5
Selenium	0.00032	I	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 18:19	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 18:19	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.6		0.25	0.11	mg/L		07/06/16 08:30	07/12/16 18:23	25
Calcium	180		1.3	0.63	mg/L		07/06/16 08:30	07/12/16 18:23	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:08	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3700		17	11	mg/L			07/01/16 11:36	1
Chloride	1600		100	30	mg/L			06/30/16 11:11	50
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 11:45	1
Sulfate	580		500	140	mg/L			07/01/16 12:24	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	22.3		0.876	2.19	1.00	0.190	pCi/L	07/07/16 11:44	07/29/16 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					07/07/16 11:44	07/29/16 10:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.18		0.572	0.744	1.00	0.440	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.3		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	84.5		40 - 110					07/07/16 11:44	07/27/16 16:37	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-07
Date Collected: 06/28/16 07:41
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-4
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	27.5		1.05	2.32	5.00	0.440	pCi/L		07/30/16 00:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.09				SU			06/28/16 07:41	1

- 1
- 2
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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-08
Date Collected: 06/28/16 10:54
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 18:28	5
Arsenic	0.0014		0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 18:28	5
Barium	0.066		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 18:28	5
Beryllium	0.0015	I	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:28	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:28	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 18:28	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 18:28	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 18:28	5
Lithium	0.0089		0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 18:28	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 18:28	5
Selenium	0.00039	I	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 18:28	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 18:28	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	15		2.0	0.84	mg/L		07/06/16 08:30	07/13/16 11:55	200
Calcium	560		10	5.0	mg/L		07/06/16 08:30	07/13/16 11:55	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6900		50	34	mg/L			07/01/16 11:36	1
Chloride	3700		240	72	mg/L			06/30/16 11:59	120
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 11:51	1
Sulfate	910		500	140	mg/L			07/01/16 12:24	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	16.9		0.729	1.68	1.00	0.108	pCi/L	07/07/16 11:44	07/29/16 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					07/07/16 11:44	07/29/16 10:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	24.4		1.11	2.51	1.00	0.412	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	83.0		40 - 110					07/07/16 11:44	07/27/16 16:37	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-08
Date Collected: 06/28/16 10:54
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-5
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	41.3		1.33	3.02	5.00	0.412	pCi/L		07/30/16 00:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	3.85				SU			06/28/16 10:54	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-09
Date Collected: 06/28/16 12:42
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-6
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 18:32	5
Arsenic	0.0026		0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 18:32	5
Barium	0.083		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 18:32	5
Beryllium	0.00069	I	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:32	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:32	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 18:32	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 18:32	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 18:32	5
Lithium	0.0072		0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 18:32	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 18:32	5
Selenium	0.00040	I	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 18:32	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 18:32	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.3		2.0	0.84	mg/L		07/06/16 08:30	07/13/16 11:59	200
Calcium	390		10	5.0	mg/L		07/06/16 08:30	07/13/16 11:59	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5900		25	17	mg/L			07/01/16 11:36	1
Chloride	2900		200	60	mg/L			06/30/16 11:36	100
Fluoride	0.040	I	0.10	0.032	mg/L			06/30/16 11:54	1
Sulfate	780		500	140	mg/L			07/01/16 12:28	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	16.5		0.751	1.66	1.00	0.129	pCi/L	07/07/16 11:44	07/29/16 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.1		40 - 110					07/07/16 11:44	07/29/16 10:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	15.6		0.970	1.73	1.00	0.464	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.1		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	81.5		40 - 110					07/07/16 11:44	07/27/16 16:37	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-09
Date Collected: 06/28/16 12:42
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-6
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	32.0		1.23	2.40	5.00	0.464	pCi/L		07/30/16 00:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.29				SU			06/28/16 12:42	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-10

Date Collected: 06/28/16 12:55

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-7

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 18:50	5
Arsenic	0.0025		0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 18:50	5
Barium	0.11		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 18:50	5
Beryllium	0.00057	I	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:50	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:50	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 18:50	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 18:50	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 18:50	5
Lithium	0.0069		0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 18:50	5
Molybdenum	0.0027	I	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 18:50	5
Selenium	0.00026	I	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 18:50	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 18:50	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.7		2.0	0.84	mg/L		07/06/16 08:30	07/13/16 12:03	200
Calcium	570		10	5.0	mg/L		07/06/16 08:30	07/13/16 12:03	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6900		25	17	mg/L			07/01/16 11:36	1
Chloride	3200		200	60	mg/L			06/30/16 11:37	100
Fluoride	0.040	I	0.10	0.032	mg/L			06/30/16 11:58	1
Sulfate	860		500	140	mg/L			07/01/16 12:28	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	8.27		0.578	0.942	1.00	0.153	pCi/L	07/07/16 11:44	07/29/16 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					07/07/16 11:44	07/29/16 10:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	20.0		1.10	2.14	1.00	0.538	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	80.0		40 - 110					07/07/16 11:44	07/27/16 16:37	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-10
Date Collected: 06/28/16 12:55
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-7
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	28.3		1.24	2.34	5.00	0.538	pCi/L		07/30/16 00:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.25				SU			06/28/16 12:55	1

- 1
- 2
- 3
- 4
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- 13
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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-11

Date Collected: 06/28/16 13:48

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-8

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0018	I	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 18:55	5
Barium	0.12		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 18:55	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:55	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 18:55	5
Chromium	0.0029		0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 18:55	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 18:55	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 18:55	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 18:55	5
Molybdenum	0.0098	I	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 18:55	5
Selenium	0.00036	I	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 18:55	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 18:55	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.029		0.0063	0.0023	mg/L		07/06/16 08:30	07/12/16 18:59	25
Boron	3.9		0.25	0.11	mg/L		07/06/16 08:30	07/12/16 18:59	25
Calcium	160		1.3	0.63	mg/L		07/06/16 08:30	07/12/16 18:59	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:22	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5100		25	17	mg/L			07/01/16 11:36	1
Chloride	2900		240	72	mg/L			06/30/16 11:04	120
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 12:01	1
Sulfate	330		250	70	mg/L			07/01/16 12:39	50

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	24.8		0.914	2.41	1.00	0.135	pCi/L	07/07/16 11:44	07/29/16 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					07/07/16 11:44	07/29/16 10:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.46		0.602	0.784	1.00	0.477	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	79.6		40 - 110					07/07/16 11:44	07/27/16 16:37	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-11
Date Collected: 06/28/16 13:48
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-8
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	30.2		1.09	2.53	5.00	0.477	pCi/L		07/30/16 00:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.76				SU			06/28/16 13:48	1

- 1
- 2
- 3
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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-12
Date Collected: 06/27/16 15:25
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-9
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 19:04	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 19:04	5
Barium	0.014		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 19:04	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:04	5
Boron	0.083		0.050	0.021	mg/L		07/06/16 08:30	07/12/16 19:04	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:04	5
Calcium	29		0.25	0.13	mg/L		07/06/16 08:30	07/12/16 19:04	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 19:04	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 19:04	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 19:04	5
Lithium	0.0085		0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 19:04	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 19:04	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 19:04	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 19:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:23	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4200		50	34	mg/L			07/01/16 11:36	1
Chloride	170		20	6.0	mg/L			06/30/16 11:04	10
Fluoride	0.080	I	0.10	0.032	mg/L			06/30/16 12:03	1
Sulfate	1.6	I	5.0	1.4	mg/L			07/01/16 11:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.82		0.268	0.314	1.00	0.155	pCi/L	07/07/16 11:44	07/29/16 10:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.4		40 - 110					07/07/16 11:44	07/29/16 10:35	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.678		0.351	0.356	1.00	0.519	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.4		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	83.4		40 - 110					07/07/16 11:44	07/27/16 16:37	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	2.49		0.441	0.475	5.00	0.519	pCi/L		07/30/16 00:23	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-12
Date Collected: 06/27/16 15:25
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-9
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.04				SU			06/27/16 15:25	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-13
Date Collected: 06/28/16 09:26
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-10
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 19:08	5
Arsenic	0.00051	I	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 19:08	5
Barium	0.12		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 19:08	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:08	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:08	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 19:08	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 19:08	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 19:08	5
Lithium	0.18		0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 19:08	5
Molybdenum	0.0058	I	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 19:08	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 19:08	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 19:08	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	16		2.0	0.84	mg/L		07/06/16 08:30	07/13/16 12:08	200
Calcium	870		10	5.0	mg/L		07/06/16 08:30	07/13/16 12:08	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:24	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5400		25	17	mg/L			07/01/16 11:36	1
Chloride	4300		2000	600	mg/L			06/30/16 11:59	1000
Fluoride	0.050	I	0.10	0.032	mg/L			06/30/16 12:05	1
Sulfate	1200		500	140	mg/L			07/01/16 12:32	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	11.1		0.610	1.17	1.00	0.130	pCi/L	07/07/16 11:44	07/29/16 10:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					07/07/16 11:44	07/29/16 10:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	9.41		0.735	1.14	1.00	0.448	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	86.0		40 - 110					07/07/16 11:44	07/27/16 16:37	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-13
Date Collected: 06/28/16 09:26
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-10
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	20.5		0.956	1.63	5.00	0.448	pCi/L		07/30/16 00:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.15				SU			06/28/16 09:26	1

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- 2
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- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-14
Date Collected: 06/28/16 11:20
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-11
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 19:13	5
Arsenic	0.0027		0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 19:13	5
Barium	0.050		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 19:13	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:13	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:13	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 19:13	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 19:13	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 19:13	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 19:13	5
Molybdenum	0.017		0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 19:13	5
Selenium	0.00024	I	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 19:13	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 19:13	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.0		2.0	0.84	mg/L		07/06/16 08:30	07/13/16 12:12	200
Calcium	260		10	5.0	mg/L		07/06/16 08:30	07/13/16 12:12	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5400		25	17	mg/L			07/01/16 11:36	1
Chloride	2700		200	60	mg/L			06/30/16 11:37	100
Fluoride	0.040	I	0.10	0.032	mg/L			06/30/16 12:07	1
Sulfate	580		500	140	mg/L			07/01/16 12:32	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	4.33		0.383	0.547	1.00	0.184	pCi/L	07/07/16 11:44	07/29/16 10:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					07/07/16 11:44	07/29/16 10:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.08		0.552	0.723	1.00	0.410	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	81.5		40 - 110					07/07/16 11:44	07/27/16 16:37	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-14
Date Collected: 06/28/16 11:20
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-11
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	9.41		0.672	0.907	5.00	0.410	pCi/L		07/30/16 00:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.69				SU			06/28/16 11:20	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: DUP-01
Date Collected: 06/27/16 10:36
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-12
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 19:17	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 19:17	5
Barium	0.026		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 19:17	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:17	5
Boron	0.16		0.050	0.021	mg/L		07/06/16 08:30	07/12/16 19:17	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:17	5
Calcium	8.2		0.25	0.13	mg/L		07/06/16 08:30	07/12/16 19:17	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 19:17	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 19:17	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 19:17	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 19:17	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 19:17	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 19:17	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 19:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	62		5.0	3.4	mg/L			07/01/16 11:36	1
Chloride	17		2.0	0.60	mg/L			06/30/16 11:01	1
Fluoride	0.050	I	0.10	0.032	mg/L			06/30/16 12:41	1
Sulfate	6.8		5.0	1.4	mg/L			07/01/16 11:57	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.68		0.313	0.395	1.00	0.139	pCi/L	07/07/16 11:44	07/29/16 10:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					07/07/16 11:44	07/29/16 10:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.838		0.361	0.369	1.00	0.521	pCi/L	07/07/16 11:44	07/27/16 16:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					07/07/16 11:44	07/27/16 16:37	1
Y Carrier	85.2		40 - 110					07/07/16 11:44	07/27/16 16:37	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	3.52		0.478	0.541	5.00	0.521	pCi/L		07/30/16 00:23	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: DUP-01
Date Collected: 06/27/16 10:36
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-12
Matrix: Water

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.35				SU			06/27/16 10:36	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: DUP-02

Date Collected: 06/28/16 06:41

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-13

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 19:22	5
Arsenic	0.0013		0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 19:22	5
Barium	0.057		0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 19:22	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:22	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 19:22	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 19:22	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 19:22	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 19:22	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 19:22	5
Molybdenum	0.0062	I	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 19:22	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 19:22	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 19:22	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.7		0.25	0.11	mg/L		07/06/16 08:30	07/12/16 19:26	25
Calcium	190		1.3	0.63	mg/L		07/06/16 08:30	07/12/16 19:26	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:28	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3800		17	11	mg/L			07/01/16 11:36	1
Chloride	1600		100	30	mg/L			06/30/16 11:14	50
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 12:47	1
Sulfate	570		500	140	mg/L			07/01/16 12:32	100

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	23.0		0.894	2.25	1.00	0.195	pCi/L	07/07/16 11:44	07/29/16 10:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					07/07/16 11:44	07/29/16 10:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.56		0.607	0.794	1.00	0.475	pCi/L	07/07/16 11:44	07/27/16 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					07/07/16 11:44	07/27/16 16:38	1
Y Carrier	85.6		40 - 110					07/07/16 11:44	07/27/16 16:38	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: DUP-02
Date Collected: 06/28/16 06:41
Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-13
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	28.6		1.08	2.39	5.00	0.475	pCi/L		07/30/16 00:23	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.09				SU			06/28/16 06:41	1

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- 2
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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: EQ BLANK-01

Lab Sample ID: 400-123744-14

Date Collected: 06/28/16 13:25

Matrix: Water

Date Received: 06/29/16 14:35

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 17:02	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 17:02	5
Barium	0.00049	U	0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 17:02	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:02	5
Boron	0.021	U	0.050	0.021	mg/L		07/06/16 08:30	07/12/16 17:02	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:02	5
Calcium	0.13	U	0.25	0.13	mg/L		07/06/16 08:30	07/12/16 17:02	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 17:02	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 17:02	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 17:02	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 17:02	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 17:02	5
Selenium	0.00031	I	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 17:02	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 17:02	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			07/01/16 11:36	1
Chloride	0.60	U	2.0	0.60	mg/L			06/30/16 11:01	1
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 12:49	1
Sulfate	1.4	U	5.0	1.4	mg/L			07/01/16 11:58	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0102	U	0.110	0.110	1.00	0.203	pCi/L	07/07/16 11:44	07/29/16 10:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					07/07/16 11:44	07/29/16 10:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.298	U	0.275	0.276	1.00	0.442	pCi/L	07/07/16 11:44	07/27/16 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					07/07/16 11:44	07/27/16 16:38	1
Y Carrier	85.6		40 - 110					07/07/16 11:44	07/27/16 16:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.308	U	0.296	0.297	5.00	0.442	pCi/L		07/30/16 00:23	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: FIELD BLANK-01

Lab Sample ID: 400-123744-15

Date Collected: 06/28/16 11:15

Matrix: Water

Date Received: 06/29/16 14:35

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 17:07	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 17:07	5
Barium	0.00049	U	0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 17:07	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:07	5
Boron	0.021	U	0.050	0.021	mg/L		07/06/16 08:30	07/12/16 17:07	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:07	5
Calcium	0.13	U	0.25	0.13	mg/L		07/06/16 08:30	07/12/16 17:07	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 17:07	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 17:07	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 17:07	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 17:07	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 17:07	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 17:07	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 17:07	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:30	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			07/01/16 11:36	1
Chloride	0.60	U	2.0	0.60	mg/L			06/30/16 11:01	1
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 12:52	1
Sulfate	1.4	U	5.0	1.4	mg/L			07/01/16 11:58	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0153	U	0.0935	0.0935	1.00	0.184	pCi/L	07/07/16 11:44	07/29/16 10:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					07/07/16 11:44	07/29/16 10:34	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.199	U	0.240	0.240	1.00	0.467	pCi/L	07/07/16 11:44	07/27/16 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					07/07/16 11:44	07/27/16 16:38	1
Y Carrier	86.4		40 - 110					07/07/16 11:44	07/27/16 16:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.214	U	0.257	0.258	5.00	0.467	pCi/L		07/30/16 00:23	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: EQ BLANK-02

Lab Sample ID: 400-123744-16

Date Collected: 06/28/16 13:50

Matrix: Water

Date Received: 06/29/16 14:35

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 17:11	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 17:11	5
Barium	0.00049	U	0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 17:11	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:11	5
Boron	0.021	U	0.050	0.021	mg/L		07/06/16 08:30	07/12/16 17:11	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:11	5
Calcium	0.13	U	0.25	0.13	mg/L		07/06/16 08:30	07/12/16 17:11	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 17:11	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 17:11	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 17:11	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 17:11	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 17:11	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 17:11	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 17:11	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			07/01/16 11:36	1
Chloride	0.60	U	2.0	0.60	mg/L			06/30/16 11:01	1
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 12:55	1
Sulfate	1.4	U	5.0	1.4	mg/L			07/01/16 11:58	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0244	U	0.0906	0.0906	1.00	0.167	pCi/L	07/07/16 11:44	07/29/16 10:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110					07/07/16 11:44	07/29/16 10:36	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.232	U	0.322	0.322	1.00	0.537	pCi/L	07/07/16 11:44	07/27/16 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.9		40 - 110					07/07/16 11:44	07/27/16 16:38	1
Y Carrier	84.1		40 - 110					07/07/16 11:44	07/27/16 16:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.256	U	0.334	0.335	5.00	0.537	pCi/L		07/30/16 00:23	1

TestAmerica Pensacola

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: FIELD BLANK-02

Lab Sample ID: 400-123744-17

Date Collected: 06/28/16 14:05

Matrix: Water

Date Received: 06/29/16 14:35

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 17:16	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 17:16	5
Barium	0.00049	U	0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 17:16	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:16	5
Boron	0.021	U	0.050	0.021	mg/L		07/06/16 08:30	07/12/16 17:16	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 17:16	5
Calcium	0.13	U	0.25	0.13	mg/L		07/06/16 08:30	07/12/16 17:16	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 17:16	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 17:16	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 17:16	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 17:16	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 17:16	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 17:16	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 17:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:48	07/07/16 14:38	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			07/01/16 11:36	1
Chloride	0.60	U	2.0	0.60	mg/L			07/01/16 13:38	1
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 12:58	1
Sulfate	1.4	U	5.0	1.4	mg/L			07/06/16 08:27	1

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0401	U	0.0948	0.0949	1.00	0.192	pCi/L	07/07/16 11:44	07/29/16 10:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					07/07/16 11:44	07/29/16 10:33	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0835	U	0.223	0.223	1.00	0.389	pCi/L	07/07/16 11:44	07/27/16 16:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					07/07/16 11:44	07/27/16 16:38	1
Y Carrier	85.6		40 - 110					07/07/16 11:44	07/27/16 16:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0433	U	0.243	0.243	5.00	0.389	pCi/L		07/30/16 00:23	1

TestAmerica Pensacola

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

General Chemistry

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-02

Date Collected: 06/27/16 11:36

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 17:34	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 13:41	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	312525	06/30/16 10:45	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 11:31	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	312646	07/01/16 11:51	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:36	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/27/16 11:36	BWS	TAL PEN

Client Sample ID: MW-03

Date Collected: 06/27/16 13:10

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 17:52	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	312525	06/30/16 10:45	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 11:34	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	312646	07/01/16 11:51	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/27/16 13:10	BWS	TAL PEN

Client Sample ID: MW-06

Date Collected: 06/28/16 09:35

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 18:14	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-06

Date Collected: 06/28/16 09:35

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	314404	07/13/16 11:50	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:21	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	312525	06/30/16 11:59	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 11:37	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	312646	07/01/16 12:24	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/28/16 09:35	BWS	TAL PEN

Client Sample ID: MW-07

Date Collected: 06/28/16 07:41

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 18:19	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	314053	07/12/16 18:23	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		50	312525	06/30/16 11:11	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 11:45	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	312646	07/01/16 12:24	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/28/16 07:41	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-08

Date Collected: 06/28/16 10:54

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 18:28	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	314404	07/13/16 11:55	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:09	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	312525	06/30/16 11:59	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 11:51	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	312646	07/01/16 12:24	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/28/16 10:54	BWS	TAL PEN

Client Sample ID: MW-09

Date Collected: 06/28/16 12:42

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 18:32	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	314404	07/13/16 11:59	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	312525	06/30/16 11:36	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 11:54	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	312646	07/01/16 12:28	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/28/16 12:42	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-10

Date Collected: 06/28/16 12:55

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 18:50	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	314404	07/13/16 12:03	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	312525	06/30/16 11:37	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 11:58	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	312646	07/01/16 12:28	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/28/16 12:55	BWS	TAL PEN

Client Sample ID: MW-11

Date Collected: 06/28/16 13:48

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 18:55	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	314053	07/12/16 18:59	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:22	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	312525	06/30/16 11:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 12:01	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		50	312646	07/01/16 12:39	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/28/16 13:48	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-12

Lab Sample ID: 400-123744-9

Date Collected: 06/27/16 15:25

Matrix: Water

Date Received: 06/29/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 19:04	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:23	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		10	312525	06/30/16 11:04	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 12:03	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	312646	07/01/16 11:57	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:35	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/27/16 15:25	BWS	TAL PEN

Client Sample ID: MW-13

Lab Sample ID: 400-123744-10

Date Collected: 06/28/16 09:26

Matrix: Water

Date Received: 06/29/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 19:08	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	314404	07/13/16 12:08	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:24	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1000	312525	06/30/16 11:59	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 12:05	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	312646	07/01/16 12:32	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/28/16 09:26	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: MW-14

Date Collected: 06/28/16 11:20

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 19:13	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	314404	07/13/16 12:12	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:25	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	312525	06/30/16 11:37	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312471	06/30/16 12:07	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	312646	07/01/16 12:32	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/28/16 11:20	BWS	TAL PEN

Client Sample ID: DUP-01

Date Collected: 06/27/16 10:36

Date Received: 06/29/16 14:35

Lab Sample ID: 400-123744-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 19:17	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:27	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	312525	06/30/16 11:01	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312491	06/30/16 12:41	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	312646	07/01/16 11:57	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:37	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/27/16 10:36	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: DUP-02

Lab Sample ID: 400-123744-13

Date Collected: 06/28/16 06:41

Matrix: Water

Date Received: 06/29/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 19:22	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	314053	07/12/16 19:26	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:28	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		50	312525	06/30/16 11:14	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312491	06/30/16 12:47	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	312646	07/01/16 12:32	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL
Total/NA	Analysis	Field Sampling		1	317101	06/28/16 06:41	BWS	TAL PEN

Client Sample ID: EQ BLANK-01

Lab Sample ID: 400-123744-14

Date Collected: 06/28/16 13:25

Matrix: Water

Date Received: 06/29/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 17:02	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	312525	06/30/16 11:01	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312491	06/30/16 12:49	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	312646	07/01/16 11:58	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL

Client Sample ID: FIELD BLANK-01

Lab Sample ID: 400-123744-15

Date Collected: 06/28/16 11:15

Matrix: Water

Date Received: 06/29/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: FIELD BLANK-01

Lab Sample ID: 400-123744-15

Date Collected: 06/28/16 11:15

Matrix: Water

Date Received: 06/29/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020		5	314053	07/12/16 17:07	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:30	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	312525	06/30/16 11:01	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312491	06/30/16 12:52	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	312646	07/01/16 11:58	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:34	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL

Client Sample ID: EQ BLANK-02

Lab Sample ID: 400-123744-16

Date Collected: 06/28/16 13:50

Matrix: Water

Date Received: 06/29/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 17:11	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	312525	06/30/16 11:01	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312491	06/30/16 12:55	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	312646	07/01/16 11:58	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:36	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	RTM	TAL SL

Client Sample ID: FIELD BLANK-02

Lab Sample ID: 400-123744-17

Date Collected: 06/28/16 14:05

Matrix: Water

Date Received: 06/29/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			312512	07/06/16 08:30	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	314053	07/12/16 17:16	RJB	TAL PEN
Total/NA	Prep	7470A			312413	06/30/16 08:48	JAP	TAL PEN
Total/NA	Analysis	7470A		1	313274	07/07/16 14:38	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	312584	07/01/16 11:36	CAC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Client Sample ID: FIELD BLANK-02

Lab Sample ID: 400-123744-17

Date Collected: 06/28/16 14:05

Matrix: Water

Date Received: 06/29/16 14:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	312645	07/01/16 13:38	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	312491	06/30/16 12:58	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	313079	07/06/16 08:27	LSS	TAL PEN
Total/NA	Prep	PrecSep-21			259563	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9315		1	262649	07/29/16 10:33	RTM	TAL SL
Total/NA	Prep	PrecSep_0			259565	07/07/16 11:44	SCB	TAL SL
Total/NA	Analysis	9320		1	262335	07/27/16 16:38	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	262766	07/30/16 00:23	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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Metals

Prep Batch: 312413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total/NA	Water	7470A	
400-123744-2	MW-03	Total/NA	Water	7470A	
400-123744-3	MW-06	Total/NA	Water	7470A	
400-123744-4	MW-07	Total/NA	Water	7470A	
400-123744-5	MW-08	Total/NA	Water	7470A	
400-123744-6	MW-09	Total/NA	Water	7470A	
400-123744-7	MW-10	Total/NA	Water	7470A	
400-123744-8	MW-11	Total/NA	Water	7470A	
400-123744-9	MW-12	Total/NA	Water	7470A	
400-123744-10	MW-13	Total/NA	Water	7470A	
400-123744-11	MW-14	Total/NA	Water	7470A	
400-123744-12	DUP-01	Total/NA	Water	7470A	
400-123744-13	DUP-02	Total/NA	Water	7470A	
400-123744-14	EQ BLANK-01	Total/NA	Water	7470A	
400-123744-15	FIELD BLANK-01	Total/NA	Water	7470A	
400-123744-16	EQ BLANK-02	Total/NA	Water	7470A	
400-123744-17	FIELD BLANK-02	Total/NA	Water	7470A	
MB 400-312413/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-312413/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-123744-1 MS	MW-02	Total/NA	Water	7470A	
400-123744-1 MSD	MW-02	Total/NA	Water	7470A	

Prep Batch: 312512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total Recoverable	Water	3005A	
400-123744-2	MW-03	Total Recoverable	Water	3005A	
400-123744-3	MW-06	Total Recoverable	Water	3005A	
400-123744-3 - DL	MW-06	Total Recoverable	Water	3005A	
400-123744-4 - DL	MW-07	Total Recoverable	Water	3005A	
400-123744-4	MW-07	Total Recoverable	Water	3005A	
400-123744-5 - DL	MW-08	Total Recoverable	Water	3005A	
400-123744-5	MW-08	Total Recoverable	Water	3005A	
400-123744-6	MW-09	Total Recoverable	Water	3005A	
400-123744-6 - DL	MW-09	Total Recoverable	Water	3005A	
400-123744-7	MW-10	Total Recoverable	Water	3005A	
400-123744-7 - DL	MW-10	Total Recoverable	Water	3005A	
400-123744-8 - DL	MW-11	Total Recoverable	Water	3005A	
400-123744-8	MW-11	Total Recoverable	Water	3005A	
400-123744-9	MW-12	Total Recoverable	Water	3005A	
400-123744-10	MW-13	Total Recoverable	Water	3005A	
400-123744-10 - DL	MW-13	Total Recoverable	Water	3005A	
400-123744-11	MW-14	Total Recoverable	Water	3005A	
400-123744-11 - DL	MW-14	Total Recoverable	Water	3005A	
400-123744-12	DUP-01	Total Recoverable	Water	3005A	
400-123744-13	DUP-02	Total Recoverable	Water	3005A	
400-123744-13 - DL	DUP-02	Total Recoverable	Water	3005A	
400-123744-14	EQ BLANK-01	Total Recoverable	Water	3005A	
400-123744-15	FIELD BLANK-01	Total Recoverable	Water	3005A	
400-123744-16	EQ BLANK-02	Total Recoverable	Water	3005A	
400-123744-17	FIELD BLANK-02	Total Recoverable	Water	3005A	
MB 400-312512/1-A ^5	Method Blank	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Metals (Continued)

Prep Batch: 312512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-312512/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-123744-2 MS	MW-03	Total Recoverable	Water	3005A	
400-123744-2 MSD	MW-03	Total Recoverable	Water	3005A	

Analysis Batch: 313274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total/NA	Water	7470A	312413
400-123744-2	MW-03	Total/NA	Water	7470A	312413
400-123744-3	MW-06	Total/NA	Water	7470A	312413
400-123744-4	MW-07	Total/NA	Water	7470A	312413
400-123744-5	MW-08	Total/NA	Water	7470A	312413
400-123744-6	MW-09	Total/NA	Water	7470A	312413
400-123744-7	MW-10	Total/NA	Water	7470A	312413
400-123744-8	MW-11	Total/NA	Water	7470A	312413
400-123744-9	MW-12	Total/NA	Water	7470A	312413
400-123744-10	MW-13	Total/NA	Water	7470A	312413
400-123744-11	MW-14	Total/NA	Water	7470A	312413
400-123744-12	DUP-01	Total/NA	Water	7470A	312413
400-123744-13	DUP-02	Total/NA	Water	7470A	312413
400-123744-14	EQ BLANK-01	Total/NA	Water	7470A	312413
400-123744-15	FIELD BLANK-01	Total/NA	Water	7470A	312413
400-123744-16	EQ BLANK-02	Total/NA	Water	7470A	312413
400-123744-17	FIELD BLANK-02	Total/NA	Water	7470A	312413
MB 400-312413/14-A	Method Blank	Total/NA	Water	7470A	312413
LCS 400-312413/15-A	Lab Control Sample	Total/NA	Water	7470A	312413
400-123744-1 MS	MW-02	Total/NA	Water	7470A	312413
400-123744-1 MSD	MW-02	Total/NA	Water	7470A	312413

Analysis Batch: 314053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total Recoverable	Water	6020	312512
400-123744-2	MW-03	Total Recoverable	Water	6020	312512
400-123744-3	MW-06	Total Recoverable	Water	6020	312512
400-123744-4	MW-07	Total Recoverable	Water	6020	312512
400-123744-4 - DL	MW-07	Total Recoverable	Water	6020	312512
400-123744-5	MW-08	Total Recoverable	Water	6020	312512
400-123744-6	MW-09	Total Recoverable	Water	6020	312512
400-123744-7	MW-10	Total Recoverable	Water	6020	312512
400-123744-8	MW-11	Total Recoverable	Water	6020	312512
400-123744-8 - DL	MW-11	Total Recoverable	Water	6020	312512
400-123744-9	MW-12	Total Recoverable	Water	6020	312512
400-123744-10	MW-13	Total Recoverable	Water	6020	312512
400-123744-11	MW-14	Total Recoverable	Water	6020	312512
400-123744-12	DUP-01	Total Recoverable	Water	6020	312512
400-123744-13	DUP-02	Total Recoverable	Water	6020	312512
400-123744-13 - DL	DUP-02	Total Recoverable	Water	6020	312512
400-123744-14	EQ BLANK-01	Total Recoverable	Water	6020	312512
400-123744-15	FIELD BLANK-01	Total Recoverable	Water	6020	312512
400-123744-16	EQ BLANK-02	Total Recoverable	Water	6020	312512
400-123744-17	FIELD BLANK-02	Total Recoverable	Water	6020	312512
MB 400-312512/1-A ^5	Method Blank	Total Recoverable	Water	6020	312512

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Metals (Continued)

Analysis Batch: 314053 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-312512/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	312512
400-123744-2 MS	MW-03	Total Recoverable	Water	6020	312512
400-123744-2 MSD	MW-03	Total Recoverable	Water	6020	312512

Analysis Batch: 314404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-3 - DL	MW-06	Total Recoverable	Water	6020	312512
400-123744-5 - DL	MW-08	Total Recoverable	Water	6020	312512
400-123744-6 - DL	MW-09	Total Recoverable	Water	6020	312512
400-123744-7 - DL	MW-10	Total Recoverable	Water	6020	312512
400-123744-10 - DL	MW-13	Total Recoverable	Water	6020	312512
400-123744-11 - DL	MW-14	Total Recoverable	Water	6020	312512

General Chemistry

Analysis Batch: 312471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total/NA	Water	SM 4500 F C	
400-123744-2	MW-03	Total/NA	Water	SM 4500 F C	
400-123744-3	MW-06	Total/NA	Water	SM 4500 F C	
400-123744-4	MW-07	Total/NA	Water	SM 4500 F C	
400-123744-5	MW-08	Total/NA	Water	SM 4500 F C	
400-123744-6	MW-09	Total/NA	Water	SM 4500 F C	
400-123744-7	MW-10	Total/NA	Water	SM 4500 F C	
400-123744-8	MW-11	Total/NA	Water	SM 4500 F C	
400-123744-9	MW-12	Total/NA	Water	SM 4500 F C	
400-123744-10	MW-13	Total/NA	Water	SM 4500 F C	
400-123744-11	MW-14	Total/NA	Water	SM 4500 F C	
MB 400-312471/2	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-312471/3	Lab Control Sample	Total/NA	Water	SM 4500 F C	
680-126795-N-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
680-126795-N-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-123744-4 DU	MW-07	Total/NA	Water	SM 4500 F C	

Analysis Batch: 312491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-12	DUP-01	Total/NA	Water	SM 4500 F C	
400-123744-13	DUP-02	Total/NA	Water	SM 4500 F C	
400-123744-14	EQ BLANK-01	Total/NA	Water	SM 4500 F C	
400-123744-15	FIELD BLANK-01	Total/NA	Water	SM 4500 F C	
400-123744-16	EQ BLANK-02	Total/NA	Water	SM 4500 F C	
400-123744-17	FIELD BLANK-02	Total/NA	Water	SM 4500 F C	
MB 400-312491/2	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-312491/3	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-123744-12 MS	DUP-01	Total/NA	Water	SM 4500 F C	
400-123744-12 MSD	DUP-01	Total/NA	Water	SM 4500 F C	

Analysis Batch: 312525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

General Chemistry (Continued)

Analysis Batch: 312525 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-2	MW-03	Total/NA	Water	SM 4500 Cl- E	
400-123744-3	MW-06	Total/NA	Water	SM 4500 Cl- E	
400-123744-4	MW-07	Total/NA	Water	SM 4500 Cl- E	
400-123744-5	MW-08	Total/NA	Water	SM 4500 Cl- E	
400-123744-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
400-123744-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-123744-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
400-123744-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
400-123744-10	MW-13	Total/NA	Water	SM 4500 Cl- E	
400-123744-11	MW-14	Total/NA	Water	SM 4500 Cl- E	
400-123744-12	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-123744-13	DUP-02	Total/NA	Water	SM 4500 Cl- E	
400-123744-14	EQ BLANK-01	Total/NA	Water	SM 4500 Cl- E	
400-123744-15	FIELD BLANK-01	Total/NA	Water	SM 4500 Cl- E	
400-123744-16	EQ BLANK-02	Total/NA	Water	SM 4500 Cl- E	
MB 400-312525/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-312525/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-123707-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-123707-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-123744-6 DU	MW-09	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 312584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total/NA	Water	SM 2540C	
400-123744-2	MW-03	Total/NA	Water	SM 2540C	
400-123744-3	MW-06	Total/NA	Water	SM 2540C	
400-123744-4	MW-07	Total/NA	Water	SM 2540C	
400-123744-5	MW-08	Total/NA	Water	SM 2540C	
400-123744-6	MW-09	Total/NA	Water	SM 2540C	
400-123744-7	MW-10	Total/NA	Water	SM 2540C	
400-123744-8	MW-11	Total/NA	Water	SM 2540C	
400-123744-9	MW-12	Total/NA	Water	SM 2540C	
400-123744-10	MW-13	Total/NA	Water	SM 2540C	
400-123744-11	MW-14	Total/NA	Water	SM 2540C	
400-123744-12	DUP-01	Total/NA	Water	SM 2540C	
400-123744-13	DUP-02	Total/NA	Water	SM 2540C	
400-123744-14	EQ BLANK-01	Total/NA	Water	SM 2540C	
400-123744-15	FIELD BLANK-01	Total/NA	Water	SM 2540C	
400-123744-16	EQ BLANK-02	Total/NA	Water	SM 2540C	
400-123744-17	FIELD BLANK-02	Total/NA	Water	SM 2540C	
MB 400-312584/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-312584/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-123744-3 DU	MW-06	Total/NA	Water	SM 2540C	
400-123744-11 DU	MW-14	Total/NA	Water	SM 2540C	

Analysis Batch: 312645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-17	FIELD BLANK-02	Total/NA	Water	SM 4500 Cl- E	
MB 400-312645/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-312645/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-123859-A-4 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

General Chemistry (Continued)

Analysis Batch: 312645 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123859-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-123859-A-6 DU	Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 312646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total/NA	Water	SM 4500 SO4 E	
400-123744-2	MW-03	Total/NA	Water	SM 4500 SO4 E	
400-123744-3	MW-06	Total/NA	Water	SM 4500 SO4 E	
400-123744-4	MW-07	Total/NA	Water	SM 4500 SO4 E	
400-123744-5	MW-08	Total/NA	Water	SM 4500 SO4 E	
400-123744-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
400-123744-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-123744-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
400-123744-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
400-123744-10	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-123744-11	MW-14	Total/NA	Water	SM 4500 SO4 E	
400-123744-12	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-123744-13	DUP-02	Total/NA	Water	SM 4500 SO4 E	
400-123744-14	EQ BLANK-01	Total/NA	Water	SM 4500 SO4 E	
400-123744-15	FIELD BLANK-01	Total/NA	Water	SM 4500 SO4 E	
400-123744-16	EQ BLANK-02	Total/NA	Water	SM 4500 SO4 E	
MB 400-312646/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-312646/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-123625-E-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-123625-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-123744-6 DU	MW-09	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 313079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-17	FIELD BLANK-02	Total/NA	Water	SM 4500 SO4 E	
MB 400-313079/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-313079/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 400-313079/8	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCSD 400-313079/9	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
400-123868-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-123868-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-123744-A-18 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	

Rad

Prep Batch: 259563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total/NA	Water	PrecSep-21	
400-123744-2	MW-03	Total/NA	Water	PrecSep-21	
400-123744-3	MW-06	Total/NA	Water	PrecSep-21	
400-123744-4	MW-07	Total/NA	Water	PrecSep-21	
400-123744-5	MW-08	Total/NA	Water	PrecSep-21	
400-123744-6	MW-09	Total/NA	Water	PrecSep-21	
400-123744-7	MW-10	Total/NA	Water	PrecSep-21	
400-123744-8	MW-11	Total/NA	Water	PrecSep-21	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Rad (Continued)

Prep Batch: 259563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-9	MW-12	Total/NA	Water	PrecSep-21	
400-123744-10	MW-13	Total/NA	Water	PrecSep-21	
400-123744-11	MW-14	Total/NA	Water	PrecSep-21	
400-123744-12	DUP-01	Total/NA	Water	PrecSep-21	
400-123744-13	DUP-02	Total/NA	Water	PrecSep-21	
400-123744-14	EQ BLANK-01	Total/NA	Water	PrecSep-21	
400-123744-15	FIELD BLANK-01	Total/NA	Water	PrecSep-21	
400-123744-16	EQ BLANK-02	Total/NA	Water	PrecSep-21	
400-123744-17	FIELD BLANK-02	Total/NA	Water	PrecSep-21	
MB 160-259563/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-259563/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-259563/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 259565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total/NA	Water	PrecSep_0	
400-123744-2	MW-03	Total/NA	Water	PrecSep_0	
400-123744-3	MW-06	Total/NA	Water	PrecSep_0	
400-123744-4	MW-07	Total/NA	Water	PrecSep_0	
400-123744-5	MW-08	Total/NA	Water	PrecSep_0	
400-123744-6	MW-09	Total/NA	Water	PrecSep_0	
400-123744-7	MW-10	Total/NA	Water	PrecSep_0	
400-123744-8	MW-11	Total/NA	Water	PrecSep_0	
400-123744-9	MW-12	Total/NA	Water	PrecSep_0	
400-123744-10	MW-13	Total/NA	Water	PrecSep_0	
400-123744-11	MW-14	Total/NA	Water	PrecSep_0	
400-123744-12	DUP-01	Total/NA	Water	PrecSep_0	
400-123744-13	DUP-02	Total/NA	Water	PrecSep_0	
400-123744-14	EQ BLANK-01	Total/NA	Water	PrecSep_0	
400-123744-15	FIELD BLANK-01	Total/NA	Water	PrecSep_0	
400-123744-16	EQ BLANK-02	Total/NA	Water	PrecSep_0	
400-123744-17	FIELD BLANK-02	Total/NA	Water	PrecSep_0	
MB 160-259565/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-259565/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-259565/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

Field Service / Mobile Lab

Analysis Batch: 317101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-1	MW-02	Total/NA	Water	Field Sampling	
400-123744-2	MW-03	Total/NA	Water	Field Sampling	
400-123744-3	MW-06	Total/NA	Water	Field Sampling	
400-123744-4	MW-07	Total/NA	Water	Field Sampling	
400-123744-5	MW-08	Total/NA	Water	Field Sampling	
400-123744-6	MW-09	Total/NA	Water	Field Sampling	
400-123744-7	MW-10	Total/NA	Water	Field Sampling	
400-123744-8	MW-11	Total/NA	Water	Field Sampling	
400-123744-9	MW-12	Total/NA	Water	Field Sampling	
400-123744-10	MW-13	Total/NA	Water	Field Sampling	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 317101 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-123744-11	MW-14	Total/NA	Water	Field Sampling	
400-123744-12	DUP-01	Total/NA	Water	Field Sampling	
400-123744-13	DUP-02	Total/NA	Water	Field Sampling	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-312512/1-A ^5
Matrix: Water
Analysis Batch: 314053

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 312512

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		07/06/16 08:30	07/12/16 16:54	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		07/06/16 08:30	07/12/16 16:54	5
Barium	0.00049	U	0.0025	0.00049	mg/L		07/06/16 08:30	07/12/16 16:54	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 16:54	5
Boron	0.021	U	0.050	0.021	mg/L		07/06/16 08:30	07/12/16 16:54	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		07/06/16 08:30	07/12/16 16:54	5
Calcium	0.13	U	0.25	0.13	mg/L		07/06/16 08:30	07/12/16 16:54	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		07/06/16 08:30	07/12/16 16:54	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		07/06/16 08:30	07/12/16 16:54	5
Lead	0.00035	U	0.0013	0.00035	mg/L		07/06/16 08:30	07/12/16 16:54	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		07/06/16 08:30	07/12/16 16:54	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		07/06/16 08:30	07/12/16 16:54	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		07/06/16 08:30	07/12/16 16:54	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		07/06/16 08:30	07/12/16 16:54	5

Lab Sample ID: LCS 400-312512/2-A ^1
Matrix: Water
Analysis Batch: 314053

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 312512

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0562		mg/L		112	80 - 120
Arsenic	0.0500	0.0553		mg/L		111	80 - 120
Barium	0.0500	0.0450		mg/L		90	80 - 120
Beryllium	0.0500	0.0489		mg/L		98	80 - 120
Boron	0.100	0.101		mg/L		101	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Calcium	5.00	5.06		mg/L		101	80 - 120
Chromium	0.0500	0.0524		mg/L		105	80 - 120
Cobalt	0.0500	0.0515		mg/L		103	80 - 120
Lead	0.0500	0.0490		mg/L		98	80 - 120
Lithium	0.0500	0.0519		mg/L		104	80 - 120
Molybdenum	0.0500	0.0509		mg/L		102	80 - 120
Selenium	0.0500	0.0522		mg/L		104	80 - 120
Thallium	0.0100	0.0100		mg/L		100	80 - 120

Lab Sample ID: 400-123744-2 MS
Matrix: Water
Analysis Batch: 314053

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 312512

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0010	U	0.0500	0.0655	J3	mg/L		131	75 - 125
Arsenic	0.00046	U	0.0500	0.0583		mg/L		117	75 - 125
Barium	0.016		0.0500	0.0564		mg/L		81	75 - 125
Beryllium	0.00034	U	0.0500	0.0497		mg/L		99	75 - 125
Boron	0.021	U	0.100	0.150	I	mg/L		NC	75 - 125
Cadmium	0.00034	U	0.0500	0.0520		mg/L		104	75 - 125
Calcium	1.7		5.00	6.74		mg/L		102	75 - 125
Chromium	0.0021	I	0.0500	0.0560		mg/L		108	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

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

Lab Sample ID: 400-123744-2 MS
Matrix: Water
Analysis Batch: 314053

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 312512

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Cobalt	0.00040	U	0.0500	0.0544		mg/L		109	75 - 125	
Lead	0.00035	U	0.0500	0.0453		mg/L		91	75 - 125	
Lithium	0.010		0.0500	0.0616		mg/L		103	75 - 125	
Molybdenum	0.00085	U	0.0500	0.0570	I	mg/L		114	75 - 125	
Selenium	0.00024	U	0.0500	0.0576		mg/L		115	75 - 125	
Thallium	0.000085	U	0.0100	0.0102		mg/L		102	75 - 125	

Lab Sample ID: 400-123744-2 MSD
Matrix: Water
Analysis Batch: 314053

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 312512

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Antimony	0.0010	U	0.0500	0.0598		mg/L		120	75 - 125	9	20	
Arsenic	0.00046	U	0.0500	0.0580		mg/L		116	75 - 125	0	20	
Barium	0.016		0.0500	0.0635		mg/L		96	75 - 125	12	20	
Beryllium	0.00034	U	0.0500	0.0517		mg/L		103	75 - 125	4	20	
Boron	0.021	U	0.100	0.132	I	mg/L		NC	75 - 125	12	20	
Cadmium	0.00034	U	0.0500	0.0498		mg/L		100	75 - 125	4	20	
Calcium	1.7		5.00	7.15		mg/L		110	75 - 125	6	20	
Chromium	0.0021	I	0.0500	0.0561		mg/L		108	75 - 125	0	20	
Cobalt	0.00040	U	0.0500	0.0552		mg/L		110	75 - 125	2	20	
Lead	0.00035	U	0.0500	0.0459		mg/L		92	75 - 125	1	20	
Lithium	0.010		0.0500	0.0604		mg/L		100	75 - 125	2	20	
Molybdenum	0.00085	U	0.0500	0.0561	I	mg/L		112	75 - 125	2	20	
Selenium	0.00024	U	0.0500	0.0549		mg/L		110	75 - 125	5	20	
Thallium	0.000085	U	0.0100	0.0102		mg/L		102	75 - 125	0	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-312413/14-A
Matrix: Water
Analysis Batch: 313274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 312413

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.000070	U	0.00020	0.000070	mg/L		06/30/16 08:46	07/07/16 13:59	1

Lab Sample ID: LCS 400-312413/15-A
Matrix: Water
Analysis Batch: 313274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 312413

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
Mercury	0.00101	0.000982		mg/L		97	80 - 120	

Lab Sample ID: 400-123744-1 MS
Matrix: Water
Analysis Batch: 313274

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 312413

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Mercury	0.000070	U	0.00201	0.00203		mg/L		101	80 - 120	

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Lab Sample ID: 400-123744-1 MSD
Matrix: Water
Analysis Batch: 313274

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 312413

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.000070	U	0.00201	0.00218		mg/L		108	80 - 120	7	20

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

Lab Sample ID: MB 400-312584/1
Matrix: Water
Analysis Batch: 312584

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			07/01/16 11:36	1

Lab Sample ID: LCS 400-312584/2
Matrix: Water
Analysis Batch: 312584

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	302		mg/L		103	78 - 122

Lab Sample ID: 400-123744-3 DU
Matrix: Water
Analysis Batch: 312584

Client Sample ID: MW-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	7600		7720		mg/L		2	5

Lab Sample ID: 400-123744-11 DU
Matrix: Water
Analysis Batch: 312584

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5400		5280		mg/L		1	5

Method: SM 4500 CI- E - Chloride, Total

Lab Sample ID: MB 400-312525/6
Matrix: Water
Analysis Batch: 312525

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			06/30/16 07:06	1

Lab Sample ID: LCS 400-312525/7
Matrix: Water
Analysis Batch: 312525

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

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

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

Lab Sample ID: 400-123707-A-1 MS

Matrix: Water
Analysis Batch: 312525

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	7.9		10.0	18.4		mg/L		104	73 - 120

Lab Sample ID: 400-123707-A-1 MSD

Matrix: Water
Analysis Batch: 312525

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	7.9		10.0	18.3		mg/L		104	73 - 120	0	8

Lab Sample ID: 400-123744-6 DU

Matrix: Water
Analysis Batch: 312525

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	2900		2860		mg/L		2	8

Lab Sample ID: MB 400-312645/6

Matrix: Water
Analysis Batch: 312645

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			07/01/16 07:31	1

Lab Sample ID: LCS 400-312645/7

Matrix: Water
Analysis Batch: 312645

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	30.8		mg/L		103	90 - 110

Lab Sample ID: 400-123859-A-4 MS

Matrix: Water
Analysis Batch: 312645

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	51		20.0	59.6	J3	mg/L		44	73 - 120

Lab Sample ID: 400-123859-A-4 MSD

Matrix: Water
Analysis Batch: 312645

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	51		20.0	59.5	J3	mg/L		44	73 - 120	0	8

Lab Sample ID: 400-123859-A-6 DU

Matrix: Water
Analysis Batch: 312645

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	89		90.9		mg/L		2	8

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-312471/2
Matrix: Water
Analysis Batch: 312471

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 11:06	1

Lab Sample ID: LCS 400-312471/3
Matrix: Water
Analysis Batch: 312471

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: 680-126795-N-1 MS
Matrix: Water
Analysis Batch: 312471

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	U	1.00	1.07		mg/L		107	75 - 125

Lab Sample ID: 680-126795-N-1 MSD
Matrix: Water
Analysis Batch: 312471

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	U	1.00	1.03		mg/L		103	75 - 125	4	4

Lab Sample ID: 400-123744-4 DU
Matrix: Water
Analysis Batch: 312471

Client Sample ID: MW-07
Prep Type: Total/NA

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

Lab Sample ID: MB 400-312491/2
Matrix: Water
Analysis Batch: 312491

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			06/30/16 12:33	1

Lab Sample ID: LCS 400-312491/3
Matrix: Water
Analysis Batch: 312491

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

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-123744-12 MS
Matrix: Water
Analysis Batch: 312491

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
Fluoride	0.050	I	1.00	1.07		mg/L		102	75 - 125

Lab Sample ID: 400-123744-12 MSD
Matrix: Water
Analysis Batch: 312491

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
Fluoride	0.050	I	1.00	1.05		mg/L		100	75 - 125	2	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-312646/6
Matrix: Water
Analysis Batch: 312646

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			07/01/16 07:33	1

Lab Sample ID: LCS 400-312646/7
Matrix: Water
Analysis Batch: 312646

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: 400-123625-E-1 MS
Matrix: Water
Analysis Batch: 312646

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	2.6	I	10.0	12.9		mg/L		103	77 - 128

Lab Sample ID: 400-123625-E-1 MSD
Matrix: Water
Analysis Batch: 312646

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	2.6	I	10.0	12.8		mg/L		102	77 - 128	1	5

Lab Sample ID: 400-123744-6 DU
Matrix: Water
Analysis Batch: 312646

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	780		770		mg/L		1	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

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

Lab Sample ID: MB 400-313079/6
Matrix: Water
Analysis Batch: 313079

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			07/06/16 07:28	1

Lab Sample ID: LCS 400-313079/7
Matrix: Water
Analysis Batch: 313079

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		97	90 - 110

Lab Sample ID: 400-123868-B-1 MS
Matrix: Water
Analysis Batch: 313079

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	4.4	I	10.0	15.9		mg/L		115	77 - 128

Lab Sample ID: 400-123868-B-1 MSD
Matrix: Water
Analysis Batch: 313079

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	4.4	I	10.0	15.8		mg/L		113	77 - 128	1	5

Lab Sample ID: 400-123744-A-18 DU
Matrix: Water
Analysis Batch: 313079

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	1.7	I	1.74	I	mg/L		0.2	5

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-259563/1-A
Matrix: Water
Analysis Batch: 262649

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259563

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01342	U	0.0876	0.0877	1.00	0.165	pCi/L	07/07/16 11:42	07/29/16 10:35	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	80.6		40 - 110	07/07/16 11:42	07/29/16 10:35	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-259563/2-A
Matrix: Water
Analysis Batch: 262649

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259563

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-226	11.2	14.31		1.47	1.00	0.134	pCi/L	128	68 - 137	
Carrier	%Yield	LCS Qualifier	Limits							
Ba Carrier	78.6		40 - 110							

Lab Sample ID: LCSD 160-259563/3-A
Matrix: Water
Analysis Batch: 262649

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259563

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.2	14.90		1.52	1.00	0.170	pCi/L	134	68 - 137	0.20	1
Carrier	%Yield	LCSD Qualifier	Limits								
Ba Carrier	84.3		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-259565/1-A
Matrix: Water
Analysis Batch: 262335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259565

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1286	U	0.281	0.281	1.00	0.481	pCi/L	07/07/16 11:42	07/27/16 16:36	1
Carrier	%Yield	MB Qualifier	Limits							
Ba Carrier	80.6		40 - 110							
Y Carrier	82.2		40 - 110							
								Prepared	Analyzed	Dil Fac
								07/07/16 11:42	07/27/16 16:36	1
								07/07/16 11:42	07/27/16 16:36	1

Lab Sample ID: LCS 160-259565/2-A
Matrix: Water
Analysis Batch: 262335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259565

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.8	17.10		1.86	1.00	0.440	pCi/L	116	56 - 140
Carrier	%Yield	LCS Qualifier	Limits						
Ba Carrier	78.6		40 - 110						
Y Carrier	83.4		40 - 110						

QC Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

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

Lab Sample ID: LCSD 160-259565/3-A
Matrix: Water
Analysis Batch: 262335

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259565

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.8	16.71		1.80	1.00	0.487	pCi/L	113	56 - 140	0.11	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	84.3		40 - 110
Y Carrier	87.9		40 - 110

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- 12
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- 14

Chain of Custody Record

Client Information
 Client Contact: Carl Eldred
 Company: Hopping Greens & Sams
 Address: 119 S Monroe St. site 300
 City: Tallahassee
 State: FL, Zip: 32301
 Phone: 850-444-6427 (Tel)
 Email: carle@hgslaw.com
 Project Name: CCR Smith Plant
 Site:

Sampler: Brett Salks
 Lab PIV: Whitmire, Cheyenne R.
 E-Mail: cheyenne.whitmire@testamericainc.com
 Phone: 850 350 3458

Carrier Tracking No(s): COC No: 400-53432-23865.1
 Page: Page 1 of 2
 Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, B=biomass, A=air)	Analysis Requested										Special Instructions/Note:
					Field Filtered Sample (Yes or No)	Permitt/MSD (Yes or No)	9316, Ra226, 9320, Ra228, Ra226Ra228, GPCC	SM4500 Cl ₂ - Chloride, SM4500 SO ₄ E - Sulfate, 2640C -	6020 - Sb, As, Ba, Be, Bi, Br, Cd, Cr, Co, Pb, Li, Mn, Se, Ti, 7470A - Mercury	Field Sampling - Field Sampling Parameters	Total Number of Containers				
MW-2	6/27/16	1136	G	Water	X	X	X	X	X	X	X	X	X	X	
MW-3	6/27/16	1310		Water											
MW-6	6/28/16	0935		Water											
MW-7	6/28/16	0741		Water											
MW-8	6/28/16	1054		Water											
MW-9	6/28/16	1242		Water											
MW-10	6/28/16	1255		Water											
MW-11	6/28/16	1348		Water											
MW-12	6/27/16	1525		Water											
MW-13	6/28/16	0926		Water											
MW-14	6/28/16	1120	G	Water	X	X	X	X	X	X	X	X	X	X	

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: *[Signature]* Date: 6/29/16
 Relinquished by: *[Signature]* Date: 6/29/16
 Relinquished by: *[Signature]* Date: 6/29/16
 Relinquished by: *[Signature]* Date: 6/29/16

Relinquished by: *[Signature]* Date: 6/29/16
 Relinquished by: *[Signature]* Date: 6/29/16
 Relinquished by: *[Signature]* Date: 6/29/16

Cooler Temperature(s) °C: 33.3
 Cooler Temperature(s) °F: 92
 Custody Seal No.: *[Signature]*



TestAmerica Pensacola
3355 McLeamore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2871

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

123744

Client Information
Company: Hopping Greens & Sams
Address: 119 S Monroe St. ste 300
City: Tallahassee
State, Zip: FL, 32301
Phone: 850-444-6427(Tel)
Email: carrie@hgsiaw.com
Project Name: CCR Smith Plant
Site:

Carrier Tracking No(s):
Lab P/N: Whitire, Cheyenne R
E-Mail: cheyenne.whitire@testamericainc.com
Sample: Brets Soles
Phone: 850 380 3458

Due Date Requested:
TAT Requested (days):
PO #: Purchase Order not required
WO #:
Project #: 40006609
SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, On-water)	Field Filtered Sample (Yes or No)	Performs MS/MSD (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note:
DUP-01	6/27/16	1036	G	Water	X	X	Mercury		
DUP-02	6/28/16	0641		Water	X	X	Mercury		
EQ Blank-01	6/28/16	1325		Water	X	X	Mercury		
Field Blank-01	6/28/16	1115		Water	X	X	Mercury		
EQ Blank-02	6/28/16	1350		Water	X	X	Mercury		
Field Blank-02	6/28/16	1405	G	Water	X	X	Mercury		

Analysis Requested:
Total Dissolved Solids, 4500, F.C - Fluoride
5M4500, Cl, E - Chloride, 5M4500, SO4, E - Sulfate, 2640C -
6020 - Sb, As, Ba, B, Be, Ca, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, 7470A -
Mercury

Preservation Codes:
A - HCl
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Anchor
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:
Return To Client Disposal By Lab Archive For Months
Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Unknown Radiological
Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: [Signature]
Relinquished by: [Signature] Date: 6/29/16
Relinquished by: [Signature] Date: 6/29/16
Relinquished by: [Signature] Date: 6/29/16

Custody Seal No.:
Delta Yes Delta No
Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-123744-1

Login Number: 123744

List Source: TestAmerica Pensacola

List Number: 1

Creator: Crawford, Lauren E

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	1.4°C, 3.9°C, 3.5°C, 3.3°C, 2.3°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 <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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

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	08-31-16
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	06-30-17
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	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	06-30-17
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.

TestAmerica Pensacola

Certification Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-123744-1

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	07-31-17
USDA	Federal		P330-07-00122	01-09-17
Utah	NELAP	8	MO000542015-7	07-31-16 *
Virginia	NELAP	3	460230	06-14-17
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: 400-126524-1

Client Project/Site: CCR Smith Plant

For:

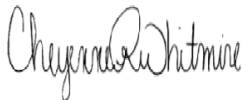
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

10/17/2016 4:55:37 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Job ID: 400-126524-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-126524-1

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06 (400-126524-3), MW-07 (400-126524-4), MW-08 (400-126524-5), MW-09 (400-126524-6), MW-10 (400-126524-7), MW-11 (400-126524-8), MW-13 (400-126524-10), MW-14 (400-126524-11), DUP-01 (400-126524-14) and DUP-02 (400-126524-17). Elevated reporting limits (RLs) are provided.

Method(s) 6020: Due to matrix effects, internal standards (ISTD) recovered high outside laboratory upper limit (>120%). Additional dilution to return ISTD to control would elevate reporting limits beyond acceptable target detection limits. MW-06 (400-126524-3), MW-07 (400-126524-4), MW-09 (400-126524-6), MW-10 (400-126524-7) and MW-11 (400-126524-8)

General Chemistry

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 321548 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 321726 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-02

Lab Sample ID: 400-126524-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.027		0.0025	0.00049	mg/L	5		6020	Total
Boron	0.035	I	0.050	0.021	mg/L	5		6020	Recoverable Total
Calcium	48		0.25	0.13	mg/L	5		6020	Recoverable Total
Molybdenum	0.00090	I	0.015	0.00085	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	200		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	0.16		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	4.5	I	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 400-126524-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.016		0.0025	0.00049	mg/L	5		6020	Total
Calcium	1.7		0.25	0.13	mg/L	5		6020	Recoverable Total
Chromium	0.0049		0.0025	0.0011	mg/L	5		6020	Recoverable Total
Lead	0.00039	I	0.0013	0.00035	mg/L	5		6020	Recoverable Total
Lithium	0.013		0.0050	0.0032	mg/L	5		6020	Recoverable Total
Total Dissolved Solids	42		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	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	5.17				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-06

Lab Sample ID: 400-126524-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00095	I	0.0013	0.00046	mg/L	5		6020	Total
Barium	0.073		0.0025	0.00049	mg/L	5		6020	Recoverable Total
Selenium	0.00027	I	0.0013	0.00024	mg/L	5		6020	Recoverable Total
Boron - DL	9.8		1.0	0.42	mg/L	100		6020	Recoverable Total
Calcium - DL	220		5.0	2.5	mg/L	100		6020	Recoverable Total
Total Dissolved Solids	5100		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	3300		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Sulfate	470	I	500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.94				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-07

Lab Sample ID: 400-126524-4

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-07 (Continued)

Lab Sample ID: 400-126524-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0010	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.059		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum	0.0050	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00030	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	2.6		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	190		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3300		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	1600		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	630		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.27				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 400-126524-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0013		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.065		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.0013	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Selenium	0.00064	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	21		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	600		10	5.0	mg/L	200		6020	Total Recoverable
Lithium - RA	0.0080		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	7900		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	3900		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Sulfate	970		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	4.75				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-09

Lab Sample ID: 400-126524-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0020		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.076		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00070	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Selenium	0.00035	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	16		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	410		10	5.0	mg/L	200		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-09 (Continued)

Lab Sample ID: 400-126524-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium - RA	0.0071		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	6400		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	2900		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	820		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.09				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-126524-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0021		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00061	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Molybdenum	0.0027	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00025	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	11		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	610		10	5.0	mg/L	200		6020	Total Recoverable
Lithium - RA	0.0069		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	6800		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	3300		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	910		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.31				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-126524-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.026		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0033		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.012	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00046	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	5.9		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	160		5.0	2.5	mg/L	100		6020	Total Recoverable
Antimony - RA	0.0016	I	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	4600		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	2900		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Sulfate	350		250	70	mg/L	50		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-11 (Continued)

Lab Sample ID: 400-126524-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.59				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-126524-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.013		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.12		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	28		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium - RA	0.010		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	490		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	180		20	6.0	mg/L	10		SM 4500 Cl- E	Total/NA
Fluoride	0.090	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	6.01				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-126524-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00047	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum	0.029		0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	19		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	870		10	5.0	mg/L	200		6020	Total Recoverable
Lithium - RA	0.19		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	11000		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	4100		2000	600	mg/L	1000		SM 4500 Cl- E	Total/NA
Fluoride	0.050	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1300		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.97				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-126524-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0025		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.051		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum	0.015		0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00024	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	12		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	270		10	5.0	mg/L	200		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-14 (Continued)

Lab Sample ID: 400-126524-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	4800		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	2800		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Fluoride	0.050	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	620		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 400-126524-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	6.0		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 400-126524-13

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-126524-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0011	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.065		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.0014	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Selenium	0.00051	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	18		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	580		10	5.0	mg/L	200		6020	Total Recoverable
Lithium - RA	0.010		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	6100		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	4000		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Sulfate	940		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	4.75				SU	1		Field Sampling	Total/NA

Client Sample ID: FB-02

Lab Sample ID: 400-126524-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.036	I	0.050	0.021	mg/L	5		6020	Total Recoverable

Client Sample ID: EB-02

Lab Sample ID: 400-126524-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	10		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 400-126524-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0019		0.0013	0.00046	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: DUP-02 (Continued)

Lab Sample ID: 400-126524-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.076		0.0025	0.00049	mg/L	5		6020	Total
Beryllium	0.00071	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Selenium	0.00037	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	12		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	400		10	5.0	mg/L	200		6020	Total Recoverable
Lithium - RA	0.0079		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	6000		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	3000		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	830		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.09				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola



Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-126524-1	MW-02	Water	08/29/16 10:01	08/30/16 16:08
400-126524-2	MW-03	Water	08/29/16 13:17	08/30/16 16:08
400-126524-3	MW-06	Water	08/29/16 15:55	08/30/16 16:08
400-126524-4	MW-07	Water	08/29/16 15:12	08/30/16 16:08
400-126524-5	MW-08	Water	08/29/16 14:41	08/30/16 16:08
400-126524-6	MW-09	Water	08/30/16 07:17	08/30/16 16:08
400-126524-7	MW-10	Water	08/30/16 08:22	08/30/16 16:08
400-126524-8	MW-11	Water	08/30/16 09:48	08/30/16 16:08
400-126524-9	MW-12	Water	08/29/16 10:31	08/30/16 16:08
400-126524-10	MW-13	Water	08/29/16 12:07	08/30/16 16:08
400-126524-11	MW-14	Water	08/29/16 16:16	08/30/16 16:08
400-126524-12	FB-01	Water	08/29/16 15:18	08/30/16 16:08
400-126524-13	EB-01	Water	08/29/16 14:05	08/30/16 16:08
400-126524-14	DUP-01	Water	08/29/16 13:41	08/30/16 16:08
400-126524-15	FB-02	Water	08/30/16 09:55	08/30/16 16:08
400-126524-16	EB-02	Water	08/30/16 10:05	08/30/16 16:08
400-126524-17	DUP-02	Water	08/30/16 06:17	08/30/16 16:08

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-02
Date Collected: 08/29/16 10:01
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	U	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 21:14	5
Barium	0.027		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 21:14	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 21:14	5
Boron	0.035	I	0.050	0.021	mg/L		09/07/16 09:00	09/07/16 21:14	5
Calcium	48		0.25	0.13	mg/L		09/07/16 09:00	09/07/16 21:14	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 21:14	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 21:14	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 21:14	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/07/16 21:14	5
Molybdenum	0.00090	I	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 21:14	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 21:14	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/08/16 15:59	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/08/16 15:59	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/08/16 15:59	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:08	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	200		5.0	3.4	mg/L			09/02/16 16:55	1
Chloride	16		2.0	0.60	mg/L			09/06/16 12:59	1
Fluoride	0.16		0.10	0.032	mg/L			08/31/16 17:41	1
Sulfate	4.5	I	5.0	1.4	mg/L			09/06/16 15:02	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.06				SU			08/29/16 10:01	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-03

Date Collected: 08/29/16 13:17

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-2

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	U	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 21:18	5
Barium	0.016		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 21:18	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 21:18	5
Boron	0.021	U	0.050	0.021	mg/L		09/07/16 09:00	09/07/16 21:18	5
Calcium	1.7		0.25	0.13	mg/L		09/07/16 09:00	09/07/16 21:18	5
Chromium	0.0049		0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 21:18	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 21:18	5
Lead	0.00039	I	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 21:18	5
Lithium	0.013		0.0050	0.0032	mg/L		09/07/16 09:00	09/07/16 21:18	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 21:18	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 21:18	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/08/16 16:04	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/08/16 16:04	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/08/16 16:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:13	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			09/02/16 16:55	1
Chloride	11		2.0	0.60	mg/L			09/06/16 12:59	1
Fluoride	0.040	I	0.10	0.032	mg/L			08/31/16 17:58	1
Sulfate	1.4	U	5.0	1.4	mg/L			09/06/16 15:03	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.17				SU			08/29/16 13:17	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-06
Date Collected: 08/29/16 15:55
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00095	I	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 21:41	5
Barium	0.073		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 21:41	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 21:41	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 21:41	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 21:41	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 21:41	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/07/16 21:41	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 21:41	5
Selenium	0.00027	I	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 21:41	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.8		1.0	0.42	mg/L		09/07/16 09:00	09/13/16 16:13	100
Calcium	220		5.0	2.5	mg/L		09/07/16 09:00	09/13/16 16:13	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/13/16 16:08	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/13/16 16:08	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/13/16 16:08	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:15	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5100		50	34	mg/L			09/01/16 16:06	1
Chloride	3300		240	72	mg/L			09/06/16 13:33	120
Fluoride	0.032	U	0.10	0.032	mg/L			08/31/16 18:00	1
Sulfate	470	I	500	140	mg/L			09/06/16 15:27	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.94				SU			08/29/16 15:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-07
Date Collected: 08/29/16 15:12
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-4
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0010	I	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 21:45	5
Barium	0.059		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 21:45	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 21:45	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 21:45	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 21:45	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 21:45	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/07/16 21:45	5
Molybdenum	0.0050	I	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 21:45	5
Selenium	0.00030	I	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 21:45	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.6		0.25	0.11	mg/L		09/07/16 09:00	09/07/16 21:50	25
Calcium	190		1.3	0.63	mg/L		09/07/16 09:00	09/07/16 21:50	25

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/13/16 16:17	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/13/16 16:17	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/13/16 16:17	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:16	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3300		50	34	mg/L			09/01/16 16:06	1
Chloride	1600		100	30	mg/L			09/06/16 13:30	50
Fluoride	0.040	I	0.10	0.032	mg/L			08/31/16 18:02	1
Sulfate	630		500	140	mg/L			09/06/16 15:27	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.27				SU			08/29/16 15:12	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-08

Date Collected: 08/29/16 14:41

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-5

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0013		0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 22:12	5
Barium	0.065		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 22:12	5
Beryllium	0.0013	I	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 22:12	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 22:12	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 22:12	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 22:12	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 22:12	5
Selenium	0.00064	I	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 22:12	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	21		2.0	0.84	mg/L		09/07/16 09:00	09/13/16 16:31	200
Calcium	600		10	5.0	mg/L		09/07/16 09:00	09/13/16 16:31	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/13/16 16:26	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/13/16 16:26	5
Lithium	0.0080		0.0050	0.0032	mg/L		09/07/16 09:00	09/13/16 16:26	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/13/16 16:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:17	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7900		50	34	mg/L			09/01/16 16:06	1
Chloride	3900		240	72	mg/L			09/06/16 13:33	120
Fluoride	0.032	U	0.10	0.032	mg/L			08/31/16 18:06	1
Sulfate	970		500	140	mg/L			09/06/16 15:24	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.75				SU			08/29/16 14:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-09
Date Collected: 08/30/16 07:17
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-6
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0020		0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 22:17	5
Barium	0.076		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 22:17	5
Beryllium	0.00070	I	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 22:17	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 22:17	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 22:17	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 22:17	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 22:17	5
Selenium	0.00035	I	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 22:17	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	16		2.0	0.84	mg/L		09/07/16 09:00	09/13/16 16:40	200
Calcium	410		10	5.0	mg/L		09/07/16 09:00	09/13/16 16:40	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/13/16 16:35	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/13/16 16:35	5
Lithium	0.0071		0.0050	0.0032	mg/L		09/07/16 09:00	09/13/16 16:35	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/13/16 16:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6400		50	34	mg/L			09/03/16 13:40	1
Chloride	2900		240	72	mg/L			09/06/16 13:33	120
Fluoride	0.040	I	0.10	0.032	mg/L			09/21/16 12:44	1
Sulfate	820		500	140	mg/L			09/06/16 15:19	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.09				SU			08/30/16 07:17	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-10
Date Collected: 08/30/16 08:22
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-7
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0021		0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 22:21	5
Barium	0.11		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 22:21	5
Beryllium	0.00061	I	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 22:21	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 22:21	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 22:21	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 22:21	5
Molybdenum	0.0027	I	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 22:21	5
Selenium	0.00025	I	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 22:21	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11		2.0	0.84	mg/L		09/07/16 09:00	09/13/16 17:29	200
Calcium	610		10	5.0	mg/L		09/07/16 09:00	09/13/16 17:29	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/13/16 16:44	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/13/16 16:44	5
Lithium	0.0069		0.0050	0.0032	mg/L		09/07/16 09:00	09/13/16 16:44	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/13/16 16:44	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6800		50	34	mg/L			09/03/16 13:40	1
Chloride	3300		240	72	mg/L			09/06/16 13:30	120
Fluoride	0.040	I	0.10	0.032	mg/L			09/21/16 12:48	1
Sulfate	910		500	140	mg/L			09/06/16 15:19	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.31				SU			08/30/16 08:22	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-11

Date Collected: 08/30/16 09:48

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-8

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.026		0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 22:26	5
Barium	0.12		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 22:26	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 22:26	5
Chromium	0.0033		0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 22:26	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 22:26	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 22:26	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/07/16 22:26	5
Molybdenum	0.012	I	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 22:26	5
Selenium	0.00046	I	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 22:26	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	5.9		1.0	0.42	mg/L		09/07/16 09:00	09/07/16 22:30	100
Calcium	160		5.0	2.5	mg/L		09/07/16 09:00	09/07/16 22:30	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0016	I	0.0025	0.0010	mg/L		09/07/16 09:00	09/13/16 17:34	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/13/16 17:34	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/13/16 17:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:28	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4600		50	34	mg/L			09/03/16 13:40	1
Chloride	2900		240	72	mg/L			09/06/16 13:30	120
Fluoride	0.032	U	0.10	0.032	mg/L			09/21/16 12:50	1
Sulfate	350		250	70	mg/L			09/06/16 15:31	50

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.59				SU			08/30/16 09:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-12

Date Collected: 08/29/16 10:31

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-9

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	U	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 22:35	5
Barium	0.013		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 22:35	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 22:35	5
Boron	0.12		0.050	0.021	mg/L		09/07/16 09:00	09/07/16 22:35	5
Calcium	28		0.25	0.13	mg/L		09/07/16 09:00	09/07/16 22:35	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 22:35	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 22:35	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 22:35	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 22:35	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 22:35	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/14/16 17:55	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/14/16 17:55	5
Lithium	0.010		0.0050	0.0032	mg/L		09/07/16 09:00	09/14/16 17:55	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/14/16 17:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	490		5.0	3.4	mg/L			09/01/16 16:06	1
Chloride	180		20	6.0	mg/L			09/07/16 17:06	10
Fluoride	0.090	I	0.10	0.032	mg/L			08/31/16 18:08	1
Sulfate	1.4	U	5.0	1.4	mg/L			09/07/16 10:19	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.01				SU			08/29/16 10:31	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-13
Date Collected: 08/29/16 12:07
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-10
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00047	I	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 22:39	5
Barium	0.12		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 22:39	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 22:39	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 22:39	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 22:39	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 22:39	5
Molybdenum	0.029		0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 22:39	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 22:39	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	19		2.0	0.84	mg/L		09/07/16 09:00	09/14/16 16:34	200
Calcium	870		10	5.0	mg/L		09/07/16 09:00	09/14/16 16:34	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/14/16 17:59	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/14/16 17:59	5
Lithium	0.19		0.0050	0.0032	mg/L		09/07/16 09:00	09/14/16 17:59	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/14/16 17:59	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11000		50	34	mg/L			09/01/16 16:06	1
Chloride	4100		2000	600	mg/L			09/07/16 17:30	1000
Fluoride	0.050	I	0.10	0.032	mg/L			09/21/16 12:26	1
Sulfate	1300		500	140	mg/L			09/07/16 10:50	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.97				SU			08/29/16 12:07	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-14
Date Collected: 08/29/16 16:16
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-11
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0025		0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 22:44	5
Barium	0.051		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 22:44	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 22:44	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 22:44	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 22:44	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 22:44	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/07/16 22:44	5
Molybdenum	0.015		0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 22:44	5
Selenium	0.00024	I	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 22:44	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		2.0	0.84	mg/L		09/07/16 09:00	09/14/16 16:38	200
Calcium	270		10	5.0	mg/L		09/07/16 09:00	09/14/16 16:38	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/14/16 18:04	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/14/16 18:04	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/14/16 18:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:32	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4800		50	34	mg/L			09/01/16 16:06	1
Chloride	2800		240	72	mg/L			09/06/16 13:33	120
Fluoride	0.050	I	0.10	0.032	mg/L			09/21/16 12:33	1
Sulfate	620		500	140	mg/L			09/06/16 15:24	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.65				SU			08/29/16 16:16	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: FB-01
Date Collected: 08/29/16 15:18
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-12
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	U	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 23:11	5
Barium	0.00049	U	0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 23:11	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 23:11	5
Boron	0.021	U	0.050	0.021	mg/L		09/07/16 09:00	09/07/16 23:11	5
Calcium	0.13	U	0.25	0.13	mg/L		09/07/16 09:00	09/07/16 23:11	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 23:11	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 23:11	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 23:11	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 23:11	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 23:11	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/08/16 16:43	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/08/16 16:43	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/08/16 16:43	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/08/16 16:43	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6.0		5.0	3.4	mg/L			09/01/16 16:06	1
Chloride	0.60	U	2.0	0.60	mg/L			09/07/16 16:28	1
Fluoride	0.032	U	0.10	0.032	mg/L			09/21/16 12:35	1
Sulfate	1.4	U	5.0	1.4	mg/L			09/07/16 10:19	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: EB-01
Date Collected: 08/29/16 14:05
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-13
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	U	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 23:15	5
Barium	0.00049	U	0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 23:15	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 23:15	5
Boron	0.021	U	0.050	0.021	mg/L		09/07/16 09:00	09/07/16 23:15	5
Calcium	0.13	U	0.25	0.13	mg/L		09/07/16 09:00	09/07/16 23:15	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 23:15	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 23:15	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 23:15	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 23:15	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 23:15	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/08/16 16:47	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/08/16 16:47	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/08/16 16:47	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/08/16 16:47	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			09/02/16 16:55	1
Chloride	0.60	U	2.0	0.60	mg/L			09/06/16 12:59	1
Fluoride	0.032	U	0.10	0.032	mg/L			09/21/16 12:37	1
Sulfate	1.4	U	5.0	1.4	mg/L			09/06/16 15:02	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: DUP-01

Date Collected: 08/29/16 13:41

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-14

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0011	I	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 23:20	5
Barium	0.065		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 23:20	5
Beryllium	0.0014	I	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 23:20	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 23:20	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 23:20	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 23:20	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 23:20	5
Selenium	0.00051	I	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 23:20	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	18		2.0	0.84	mg/L		09/07/16 09:00	09/14/16 16:43	200
Calcium	580		10	5.0	mg/L		09/07/16 09:00	09/14/16 16:43	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/14/16 18:08	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/14/16 18:08	5
Lithium	0.010		0.0050	0.0032	mg/L		09/07/16 09:00	09/14/16 18:08	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/14/16 18:08	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:35	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6100		50	34	mg/L			09/01/16 16:06	1
Chloride	4000		240	72	mg/L			09/06/16 13:33	120
Fluoride	0.032	U	0.10	0.032	mg/L			09/21/16 12:41	1
Sulfate	940		500	140	mg/L			09/06/16 15:24	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.75				SU			08/29/16 13:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: FB-02
Date Collected: 08/30/16 09:55
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-15
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	U	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 23:24	5
Barium	0.00049	U	0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 23:24	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 23:24	5
Boron	0.036	I	0.050	0.021	mg/L		09/07/16 09:00	09/07/16 23:24	5
Calcium	0.13	U	0.25	0.13	mg/L		09/07/16 09:00	09/07/16 23:24	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 23:24	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 23:24	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 23:24	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 23:24	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 23:24	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/08/16 16:52	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/08/16 16:52	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/08/16 16:52	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/08/16 16:52	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:37	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			09/03/16 13:40	1
Chloride	0.60	U	2.0	0.60	mg/L			09/06/16 12:56	1
Fluoride	0.032	U	0.10	0.032	mg/L			09/21/16 13:04	1
Sulfate	1.4	U	5.0	1.4	mg/L			09/06/16 14:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: EB-02
Date Collected: 08/30/16 10:05
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-16
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	U	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 23:29	5
Barium	0.00049	U	0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 23:29	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 23:29	5
Boron	0.021	U	0.050	0.021	mg/L		09/07/16 09:00	09/07/16 23:29	5
Calcium	0.13	U	0.25	0.13	mg/L		09/07/16 09:00	09/07/16 23:29	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 23:29	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 23:29	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 23:29	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 23:29	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 23:29	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/08/16 16:56	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/08/16 16:56	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/08/16 16:56	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/08/16 16:56	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10		5.0	3.4	mg/L			09/03/16 13:40	1
Chloride	0.60	U	2.0	0.60	mg/L			09/06/16 12:56	1
Fluoride	0.032	U	0.10	0.032	mg/L			09/21/16 13:07	1
Sulfate	1.4	U	5.0	1.4	mg/L			09/06/16 15:01	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: DUP-02

Date Collected: 08/30/16 06:17

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-17

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0019		0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 23:33	5
Barium	0.076		0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 23:33	5
Beryllium	0.00071	I	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 23:33	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 23:33	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 23:33	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 23:33	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 23:33	5
Selenium	0.00037	I	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 23:33	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		2.0	0.84	mg/L		09/07/16 09:00	09/14/16 16:47	200
Calcium	400		10	5.0	mg/L		09/07/16 09:00	09/14/16 16:47	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/14/16 18:13	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/14/16 18:13	5
Lithium	0.0079		0.0050	0.0032	mg/L		09/07/16 09:00	09/14/16 18:13	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/14/16 18:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:22	09/07/16 13:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6000		50	34	mg/L			09/03/16 13:40	1
Chloride	3000		240	72	mg/L			09/06/16 13:33	120
Fluoride	0.040	I	0.10	0.032	mg/L			09/21/16 12:59	1
Sulfate	830		500	140	mg/L			09/06/16 15:24	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.09				SU			08/30/16 06:17	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-02
Date Collected: 08/29/16 10:01
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 21:14	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	321877	09/08/16 15:59	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321249	09/02/16 16:55	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	321548	09/06/16 12:59	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	321016	08/31/16 17:41	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	321549	09/06/16 15:02	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/29/16 10:01	BWS	TAL PEN

Client Sample ID: MW-03
Date Collected: 08/29/16 13:17
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 21:18	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	321877	09/08/16 16:04	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:13	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321249	09/02/16 16:55	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	321548	09/06/16 12:59	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	321016	08/31/16 17:58	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	321549	09/06/16 15:03	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/29/16 13:17	BWS	TAL PEN

Client Sample ID: MW-06
Date Collected: 08/29/16 15:55
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 21:41	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322475	09/13/16 16:08	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	100	322475	09/13/16 16:13	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:15	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-06

Lab Sample ID: 400-126524-3

Date Collected: 08/29/16 15:55

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	321099	09/01/16 16:06	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	321548	09/06/16 13:33	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	321016	08/31/16 18:00	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	321549	09/06/16 15:27	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/29/16 15:55	BWS	TAL PEN

Client Sample ID: MW-07

Lab Sample ID: 400-126524-4

Date Collected: 08/29/16 15:12

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 21:45	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	25	321660	09/07/16 21:50	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322475	09/13/16 16:17	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:16	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321099	09/01/16 16:06	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		50	321548	09/06/16 13:30	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	321016	08/31/16 18:02	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	321549	09/06/16 15:27	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/29/16 15:12	BWS	TAL PEN

Client Sample ID: MW-08

Lab Sample ID: 400-126524-5

Date Collected: 08/29/16 14:41

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 22:12	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322475	09/13/16 16:26	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	200	322475	09/13/16 16:31	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:17	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321099	09/01/16 16:06	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	321548	09/06/16 13:33	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	321016	08/31/16 18:06	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	321549	09/06/16 15:24	LSS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-08

Date Collected: 08/29/16 14:41

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	326063	08/29/16 14:41	BWS	TAL PEN

Client Sample ID: MW-09

Date Collected: 08/30/16 07:17

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 22:17	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322475	09/13/16 16:35	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	200	322475	09/13/16 16:40	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:26	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321321	09/03/16 13:40	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		120	321548	09/06/16 13:33	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 12:44	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	321549	09/06/16 15:19	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/30/16 07:17	BWS	TAL PEN

Client Sample ID: MW-10

Date Collected: 08/30/16 08:22

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 22:21	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322475	09/13/16 16:44	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	200	322475	09/13/16 17:29	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:27	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321321	09/03/16 13:40	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		120	321548	09/06/16 13:30	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 12:48	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	321549	09/06/16 15:19	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/30/16 08:22	BWS	TAL PEN

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-11

Date Collected: 08/30/16 09:48

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 22:26	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	100	321660	09/07/16 22:30	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322475	09/13/16 17:34	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:28	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321321	09/03/16 13:40	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	321548	09/06/16 13:30	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 12:50	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		50	321549	09/06/16 15:31	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/30/16 09:48	BWS	TAL PEN

Client Sample ID: MW-12

Date Collected: 08/29/16 10:31

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 22:35	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322885	09/14/16 17:55	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321099	09/01/16 16:06	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		10	321726	09/07/16 17:06	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	321016	08/31/16 18:08	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	321727	09/07/16 10:19	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/29/16 10:31	BWS	TAL PEN

Client Sample ID: MW-13

Date Collected: 08/29/16 12:07

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 22:39	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	200	322885	09/14/16 16:34	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322885	09/14/16 17:59	RJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: MW-13

Lab Sample ID: 400-126524-10

Date Collected: 08/29/16 12:07

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321099	09/01/16 16:06	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1000	321726	09/07/16 17:30	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 12:26	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	321727	09/07/16 10:50	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/29/16 12:07	BWS	TAL PEN

Client Sample ID: MW-14

Lab Sample ID: 400-126524-11

Date Collected: 08/29/16 16:16

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 22:44	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	200	322885	09/14/16 16:38	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322885	09/14/16 18:04	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:32	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321099	09/01/16 16:06	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	321548	09/06/16 13:33	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 12:33	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	321549	09/06/16 15:24	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/29/16 16:16	BWS	TAL PEN

Client Sample ID: FB-01

Lab Sample ID: 400-126524-12

Date Collected: 08/29/16 15:18

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 23:11	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	321877	09/08/16 16:43	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:33	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321099	09/01/16 16:06	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	321726	09/07/16 16:28	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 12:35	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	321727	09/07/16 10:19	LSS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: EB-01

Lab Sample ID: 400-126524-13

Date Collected: 08/29/16 14:05

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 23:15	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	321877	09/08/16 16:47	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321249	09/02/16 16:55	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	321548	09/06/16 12:59	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 12:37	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	321549	09/06/16 15:02	LSS	TAL PEN

Client Sample ID: DUP-01

Lab Sample ID: 400-126524-14

Date Collected: 08/29/16 13:41

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 23:20	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	200	322885	09/14/16 16:43	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322885	09/14/16 18:08	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:35	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321099	09/01/16 16:06	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	321548	09/06/16 13:33	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 12:41	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	321549	09/06/16 15:24	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/29/16 13:41	BWS	TAL PEN

Client Sample ID: FB-02

Lab Sample ID: 400-126524-15

Date Collected: 08/30/16 09:55

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 23:24	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	321877	09/08/16 16:52	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:37	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321321	09/03/16 13:40	TET	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Client Sample ID: FB-02

Lab Sample ID: 400-126524-15

Date Collected: 08/30/16 09:55

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		1	321548	09/06/16 12:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 13:04	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	321549	09/06/16 14:55	LSS	TAL PEN

Client Sample ID: EB-02

Lab Sample ID: 400-126524-16

Date Collected: 08/30/16 10:05

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 23:29	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	321877	09/08/16 16:56	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:44	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321321	09/03/16 13:40	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	321548	09/06/16 12:56	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 13:07	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	321549	09/06/16 15:01	LSS	TAL PEN

Client Sample ID: DUP-02

Lab Sample ID: 400-126524-17

Date Collected: 08/30/16 06:17

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020		5	321660	09/07/16 23:33	RJB	TAL PEN
Total Recoverable	Prep	3005A	DL		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	DL	200	322885	09/14/16 16:47	RJB	TAL PEN
Total Recoverable	Prep	3005A	RA		321514	09/07/16 09:00	KWN	TAL PEN
Total Recoverable	Analysis	6020	RA	5	322885	09/14/16 18:13	RJB	TAL PEN
Total/NA	Prep	7470A			321401	09/06/16 09:22	JAP	TAL PEN
Total/NA	Analysis	7470A		1	321663	09/07/16 13:45	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	321321	09/03/16 13:40	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		120	321548	09/06/16 13:33	LSS	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	323583	09/21/16 12:59	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	321549	09/06/16 15:24	LSS	TAL PEN
Total/NA	Analysis	Field Sampling		1	326063	08/30/16 06:17	BWS	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Metals

Prep Batch: 321401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	7470A	
400-126524-2	MW-03	Total/NA	Water	7470A	
400-126524-3	MW-06	Total/NA	Water	7470A	
400-126524-4	MW-07	Total/NA	Water	7470A	
400-126524-5	MW-08	Total/NA	Water	7470A	
400-126524-6	MW-09	Total/NA	Water	7470A	
400-126524-7	MW-10	Total/NA	Water	7470A	
400-126524-8	MW-11	Total/NA	Water	7470A	
400-126524-9	MW-12	Total/NA	Water	7470A	
400-126524-10	MW-13	Total/NA	Water	7470A	
400-126524-11	MW-14	Total/NA	Water	7470A	
400-126524-12	FB-01	Total/NA	Water	7470A	
400-126524-13	EB-01	Total/NA	Water	7470A	
400-126524-14	DUP-01	Total/NA	Water	7470A	
400-126524-15	FB-02	Total/NA	Water	7470A	
400-126524-16	EB-02	Total/NA	Water	7470A	
400-126524-17	DUP-02	Total/NA	Water	7470A	
MB 400-321401/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-321401/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-126524-1 MS	MW-02	Total/NA	Water	7470A	
400-126524-1 MSD	MW-02	Total/NA	Water	7470A	

Prep Batch: 321514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total Recoverable	Water	3005A	
400-126524-1 - RA	MW-02	Total Recoverable	Water	3005A	
400-126524-2 - RA	MW-03	Total Recoverable	Water	3005A	
400-126524-2	MW-03	Total Recoverable	Water	3005A	
400-126524-3 - RA	MW-06	Total Recoverable	Water	3005A	
400-126524-3	MW-06	Total Recoverable	Water	3005A	
400-126524-3 - DL	MW-06	Total Recoverable	Water	3005A	
400-126524-4	MW-07	Total Recoverable	Water	3005A	
400-126524-4 - RA	MW-07	Total Recoverable	Water	3005A	
400-126524-4 - DL	MW-07	Total Recoverable	Water	3005A	
400-126524-5	MW-08	Total Recoverable	Water	3005A	
400-126524-5 - DL	MW-08	Total Recoverable	Water	3005A	
400-126524-5 - RA	MW-08	Total Recoverable	Water	3005A	
400-126524-6 - DL	MW-09	Total Recoverable	Water	3005A	
400-126524-6 - RA	MW-09	Total Recoverable	Water	3005A	
400-126524-6	MW-09	Total Recoverable	Water	3005A	
400-126524-7	MW-10	Total Recoverable	Water	3005A	
400-126524-7 - RA	MW-10	Total Recoverable	Water	3005A	
400-126524-7 - DL	MW-10	Total Recoverable	Water	3005A	
400-126524-8	MW-11	Total Recoverable	Water	3005A	
400-126524-8 - DL	MW-11	Total Recoverable	Water	3005A	
400-126524-8 - RA	MW-11	Total Recoverable	Water	3005A	
400-126524-9	MW-12	Total Recoverable	Water	3005A	
400-126524-9 - RA	MW-12	Total Recoverable	Water	3005A	
400-126524-10 - RA	MW-13	Total Recoverable	Water	3005A	
400-126524-10 - DL	MW-13	Total Recoverable	Water	3005A	
400-126524-10	MW-13	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Metals (Continued)

Prep Batch: 321514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-11 - RA	MW-14	Total Recoverable	Water	3005A	
400-126524-11	MW-14	Total Recoverable	Water	3005A	
400-126524-11 - DL	MW-14	Total Recoverable	Water	3005A	
400-126524-12	FB-01	Total Recoverable	Water	3005A	
400-126524-12 - RA	FB-01	Total Recoverable	Water	3005A	
400-126524-13 - RA	EB-01	Total Recoverable	Water	3005A	
400-126524-13	EB-01	Total Recoverable	Water	3005A	
400-126524-14 - DL	DUP-01	Total Recoverable	Water	3005A	
400-126524-14	DUP-01	Total Recoverable	Water	3005A	
400-126524-14 - RA	DUP-01	Total Recoverable	Water	3005A	
400-126524-15 - RA	FB-02	Total Recoverable	Water	3005A	
400-126524-15	FB-02	Total Recoverable	Water	3005A	
400-126524-16 - RA	EB-02	Total Recoverable	Water	3005A	
400-126524-16	EB-02	Total Recoverable	Water	3005A	
400-126524-17 - DL	DUP-02	Total Recoverable	Water	3005A	
400-126524-17 - RA	DUP-02	Total Recoverable	Water	3005A	
400-126524-17	DUP-02	Total Recoverable	Water	3005A	
MB 400-321514/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-321514/2-A ^1	Lab Control Sample	Total Recoverable	Water	3005A	
400-126524-2 MS - RA	MW-03	Total Recoverable	Water	3005A	
400-126524-2 MS	MW-03	Total Recoverable	Water	3005A	
400-126524-2 MSD - RA	MW-03	Total Recoverable	Water	3005A	
400-126524-2 MSD	MW-03	Total Recoverable	Water	3005A	

Analysis Batch: 321660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total Recoverable	Water	6020	321514
400-126524-2	MW-03	Total Recoverable	Water	6020	321514
400-126524-3	MW-06	Total Recoverable	Water	6020	321514
400-126524-4	MW-07	Total Recoverable	Water	6020	321514
400-126524-4 - DL	MW-07	Total Recoverable	Water	6020	321514
400-126524-5	MW-08	Total Recoverable	Water	6020	321514
400-126524-6	MW-09	Total Recoverable	Water	6020	321514
400-126524-7	MW-10	Total Recoverable	Water	6020	321514
400-126524-8	MW-11	Total Recoverable	Water	6020	321514
400-126524-8 - DL	MW-11	Total Recoverable	Water	6020	321514
400-126524-9	MW-12	Total Recoverable	Water	6020	321514
400-126524-10	MW-13	Total Recoverable	Water	6020	321514
400-126524-11	MW-14	Total Recoverable	Water	6020	321514
400-126524-12	FB-01	Total Recoverable	Water	6020	321514
400-126524-13	EB-01	Total Recoverable	Water	6020	321514
400-126524-14	DUP-01	Total Recoverable	Water	6020	321514
400-126524-15	FB-02	Total Recoverable	Water	6020	321514
400-126524-16	EB-02	Total Recoverable	Water	6020	321514
400-126524-17	DUP-02	Total Recoverable	Water	6020	321514
MB 400-321514/1-A ^5	Method Blank	Total Recoverable	Water	6020	321514
LCS 400-321514/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	321514
400-126524-2 MS	MW-03	Total Recoverable	Water	6020	321514
400-126524-2 MSD	MW-03	Total Recoverable	Water	6020	321514

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Metals (Continued)

Analysis Batch: 321663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	7470A	321401
400-126524-2	MW-03	Total/NA	Water	7470A	321401
400-126524-3	MW-06	Total/NA	Water	7470A	321401
400-126524-4	MW-07	Total/NA	Water	7470A	321401
400-126524-5	MW-08	Total/NA	Water	7470A	321401
400-126524-6	MW-09	Total/NA	Water	7470A	321401
400-126524-7	MW-10	Total/NA	Water	7470A	321401
400-126524-8	MW-11	Total/NA	Water	7470A	321401
400-126524-9	MW-12	Total/NA	Water	7470A	321401
400-126524-10	MW-13	Total/NA	Water	7470A	321401
400-126524-11	MW-14	Total/NA	Water	7470A	321401
400-126524-12	FB-01	Total/NA	Water	7470A	321401
400-126524-13	EB-01	Total/NA	Water	7470A	321401
400-126524-14	DUP-01	Total/NA	Water	7470A	321401
400-126524-15	FB-02	Total/NA	Water	7470A	321401
400-126524-16	EB-02	Total/NA	Water	7470A	321401
400-126524-17	DUP-02	Total/NA	Water	7470A	321401
MB 400-321401/14-A	Method Blank	Total/NA	Water	7470A	321401
LCS 400-321401/15-A	Lab Control Sample	Total/NA	Water	7470A	321401
400-126524-1 MS	MW-02	Total/NA	Water	7470A	321401
400-126524-1 MSD	MW-02	Total/NA	Water	7470A	321401

Analysis Batch: 321877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1 - RA	MW-02	Total Recoverable	Water	6020	321514
400-126524-2 - RA	MW-03	Total Recoverable	Water	6020	321514
400-126524-12 - RA	FB-01	Total Recoverable	Water	6020	321514
400-126524-13 - RA	EB-01	Total Recoverable	Water	6020	321514
400-126524-15 - RA	FB-02	Total Recoverable	Water	6020	321514
400-126524-16 - RA	EB-02	Total Recoverable	Water	6020	321514
MB 400-321514/1-A ^5	Method Blank	Total Recoverable	Water	6020	321514
LCS 400-321514/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	321514
400-126524-2 MS - RA	MW-03	Total Recoverable	Water	6020	321514
400-126524-2 MSD - RA	MW-03	Total Recoverable	Water	6020	321514

Analysis Batch: 322475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-3 - RA	MW-06	Total Recoverable	Water	6020	321514
400-126524-3 - DL	MW-06	Total Recoverable	Water	6020	321514
400-126524-4 - RA	MW-07	Total Recoverable	Water	6020	321514
400-126524-5 - RA	MW-08	Total Recoverable	Water	6020	321514
400-126524-5 - DL	MW-08	Total Recoverable	Water	6020	321514
400-126524-6 - RA	MW-09	Total Recoverable	Water	6020	321514
400-126524-6 - DL	MW-09	Total Recoverable	Water	6020	321514
400-126524-7 - RA	MW-10	Total Recoverable	Water	6020	321514
400-126524-7 - DL	MW-10	Total Recoverable	Water	6020	321514
400-126524-8 - RA	MW-11	Total Recoverable	Water	6020	321514
MB 400-321514/1-A ^5	Method Blank	Total Recoverable	Water	6020	321514
LCS 400-321514/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	321514

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Metals (Continued)

Analysis Batch: 322885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-9 - RA	MW-12	Total Recoverable	Water	6020	321514
400-126524-10 - DL	MW-13	Total Recoverable	Water	6020	321514
400-126524-10 - RA	MW-13	Total Recoverable	Water	6020	321514
400-126524-11 - DL	MW-14	Total Recoverable	Water	6020	321514
400-126524-11 - RA	MW-14	Total Recoverable	Water	6020	321514
400-126524-14 - DL	DUP-01	Total Recoverable	Water	6020	321514
400-126524-14 - RA	DUP-01	Total Recoverable	Water	6020	321514
400-126524-17 - DL	DUP-02	Total Recoverable	Water	6020	321514
400-126524-17 - RA	DUP-02	Total Recoverable	Water	6020	321514
MB 400-321514/1-A ^5	Method Blank	Total Recoverable	Water	6020	321514
LCS 400-321514/2-A ^1	Lab Control Sample	Total Recoverable	Water	6020	321514

General Chemistry

Analysis Batch: 321016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	SM 4500 F C	
400-126524-2	MW-03	Total/NA	Water	SM 4500 F C	
400-126524-3	MW-06	Total/NA	Water	SM 4500 F C	
400-126524-4	MW-07	Total/NA	Water	SM 4500 F C	
400-126524-5	MW-08	Total/NA	Water	SM 4500 F C	
400-126524-9	MW-12	Total/NA	Water	SM 4500 F C	
MB 400-321016/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-321016/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-126524-1 MS	MW-02	Total/NA	Water	SM 4500 F C	
400-126524-1 MSD	MW-02	Total/NA	Water	SM 4500 F C	

Analysis Batch: 321099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-3	MW-06	Total/NA	Water	SM 2540C	
400-126524-4	MW-07	Total/NA	Water	SM 2540C	
400-126524-5	MW-08	Total/NA	Water	SM 2540C	
400-126524-9	MW-12	Total/NA	Water	SM 2540C	
400-126524-10	MW-13	Total/NA	Water	SM 2540C	
400-126524-11	MW-14	Total/NA	Water	SM 2540C	
400-126524-12	FB-01	Total/NA	Water	SM 2540C	
400-126524-14	DUP-01	Total/NA	Water	SM 2540C	
MB 400-321099/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-321099/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 321249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	SM 2540C	
400-126524-2	MW-03	Total/NA	Water	SM 2540C	
400-126524-13	EB-01	Total/NA	Water	SM 2540C	
MB 400-321249/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-321249/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-126524-1 DU	MW-02	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

General Chemistry (Continued)

Analysis Batch: 321321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-6	MW-09	Total/NA	Water	SM 2540C	
400-126524-7	MW-10	Total/NA	Water	SM 2540C	
400-126524-8	MW-11	Total/NA	Water	SM 2540C	
400-126524-15	FB-02	Total/NA	Water	SM 2540C	
400-126524-16	EB-02	Total/NA	Water	SM 2540C	
400-126524-17	DUP-02	Total/NA	Water	SM 2540C	
MB 400-321321/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-321321/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-126513-C-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 321548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	SM 4500 Cl- E	
400-126524-2	MW-03	Total/NA	Water	SM 4500 Cl- E	
400-126524-3	MW-06	Total/NA	Water	SM 4500 Cl- E	
400-126524-4	MW-07	Total/NA	Water	SM 4500 Cl- E	
400-126524-5	MW-08	Total/NA	Water	SM 4500 Cl- E	
400-126524-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
400-126524-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-126524-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
400-126524-11	MW-14	Total/NA	Water	SM 4500 Cl- E	
400-126524-13	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-126524-14	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-126524-15	FB-02	Total/NA	Water	SM 4500 Cl- E	
400-126524-16	EB-02	Total/NA	Water	SM 4500 Cl- E	
400-126524-17	DUP-02	Total/NA	Water	SM 4500 Cl- E	
MB 400-321548/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-321548/11	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-321548/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-126464-C-6 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-126464-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-126524-8 DU	MW-11	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 321549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	SM 4500 SO4 E	
400-126524-2	MW-03	Total/NA	Water	SM 4500 SO4 E	
400-126524-3	MW-06	Total/NA	Water	SM 4500 SO4 E	
400-126524-4	MW-07	Total/NA	Water	SM 4500 SO4 E	
400-126524-5	MW-08	Total/NA	Water	SM 4500 SO4 E	
400-126524-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
400-126524-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-126524-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
400-126524-11	MW-14	Total/NA	Water	SM 4500 SO4 E	
400-126524-13	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-126524-14	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-126524-15	FB-02	Total/NA	Water	SM 4500 SO4 E	
400-126524-16	EB-02	Total/NA	Water	SM 4500 SO4 E	
400-126524-17	DUP-02	Total/NA	Water	SM 4500 SO4 E	
MB 400-321549/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-321549/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

General Chemistry (Continued)

Analysis Batch: 321549 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 400-321549/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-126464-C-6 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-126464-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-126524-8 DU	MW-11	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 321726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
400-126524-10	MW-13	Total/NA	Water	SM 4500 Cl- E	
400-126524-12	FB-01	Total/NA	Water	SM 4500 Cl- E	
MB 400-321726/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-321726/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-321726/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-126706-A-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-126706-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-126706-A-1 DU	Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 321727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
400-126524-10	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-126524-12	FB-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-321727/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-321727/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-321727/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-126464-C-4 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-126464-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-126464-C-3 DU	Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 323583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-6	MW-09	Total/NA	Water	SM 4500 F C	
400-126524-7	MW-10	Total/NA	Water	SM 4500 F C	
400-126524-8	MW-11	Total/NA	Water	SM 4500 F C	
400-126524-10	MW-13	Total/NA	Water	SM 4500 F C	
400-126524-11	MW-14	Total/NA	Water	SM 4500 F C	
400-126524-12	FB-01	Total/NA	Water	SM 4500 F C	
400-126524-13	EB-01	Total/NA	Water	SM 4500 F C	
400-126524-14	DUP-01	Total/NA	Water	SM 4500 F C	
400-126524-15	FB-02	Total/NA	Water	SM 4500 F C	
400-126524-16	EB-02	Total/NA	Water	SM 4500 F C	
400-126524-17	DUP-02	Total/NA	Water	SM 4500 F C	
MB 400-323583/4	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-323583/5	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-126524-10 MS	MW-13	Total/NA	Water	SM 4500 F C	
400-126524-10 MSD	MW-13	Total/NA	Water	SM 4500 F C	
400-126524-17 DU	DUP-02	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Field Service / Mobile Lab

Analysis Batch: 326063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	Field Sampling	
400-126524-2	MW-03	Total/NA	Water	Field Sampling	
400-126524-3	MW-06	Total/NA	Water	Field Sampling	
400-126524-4	MW-07	Total/NA	Water	Field Sampling	
400-126524-5	MW-08	Total/NA	Water	Field Sampling	
400-126524-6	MW-09	Total/NA	Water	Field Sampling	
400-126524-7	MW-10	Total/NA	Water	Field Sampling	
400-126524-8	MW-11	Total/NA	Water	Field Sampling	
400-126524-9	MW-12	Total/NA	Water	Field Sampling	
400-126524-10	MW-13	Total/NA	Water	Field Sampling	
400-126524-11	MW-14	Total/NA	Water	Field Sampling	
400-126524-14	DUP-01	Total/NA	Water	Field Sampling	
400-126524-17	DUP-02	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-321514/1-A ^5
Matrix: Water
Analysis Batch: 321660

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 321514

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00046	U	0.0013	0.00046	mg/L		09/07/16 09:00	09/07/16 20:38	5
Barium	0.00049	U	0.0025	0.00049	mg/L		09/07/16 09:00	09/07/16 20:38	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/07/16 20:38	5
Boron	0.021	U	0.050	0.021	mg/L		09/07/16 09:00	09/07/16 20:38	5
Calcium	0.13	U	0.25	0.13	mg/L		09/07/16 09:00	09/07/16 20:38	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		09/07/16 09:00	09/07/16 20:38	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		09/07/16 09:00	09/07/16 20:38	5
Lead	0.00035	U	0.0013	0.00035	mg/L		09/07/16 09:00	09/07/16 20:38	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/07/16 20:38	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		09/07/16 09:00	09/07/16 20:38	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		09/07/16 09:00	09/07/16 20:38	5

Lab Sample ID: MB 400-321514/1-A ^5
Matrix: Water
Analysis Batch: 321877

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 321514

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/08/16 15:37	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/08/16 15:37	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/08/16 15:37	5

Lab Sample ID: MB 400-321514/1-A ^5
Matrix: Water
Analysis Batch: 322475

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 321514

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/13/16 15:59	5
Boron	0.021	U	0.050	0.021	mg/L		09/07/16 09:00	09/13/16 15:59	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/13/16 15:59	5
Calcium	0.13	U	0.25	0.13	mg/L		09/07/16 09:00	09/13/16 15:59	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/13/16 15:59	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/13/16 15:59	5

Lab Sample ID: MB 400-321514/1-A ^5
Matrix: Water
Analysis Batch: 322885

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 321514

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		09/07/16 09:00	09/14/16 15:49	5
Boron	0.021	U	0.050	0.021	mg/L		09/07/16 09:00	09/14/16 15:49	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		09/07/16 09:00	09/14/16 15:49	5
Calcium	0.13	U	0.25	0.13	mg/L		09/07/16 09:00	09/14/16 15:49	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		09/07/16 09:00	09/14/16 15:49	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		09/07/16 09:00	09/14/16 15:49	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

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

Lab Sample ID: LCS 400-321514/2-A ^1
Matrix: Water
Analysis Batch: 321660

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 321514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
Arsenic	0.0500	0.0519		mg/L		104	80 - 120	
Barium	0.0500	0.0458		mg/L		92	80 - 120	
Beryllium	0.0500	0.0500		mg/L		100	80 - 120	
Boron	0.100	0.0994		mg/L		99	80 - 120	
Calcium	5.00	4.80		mg/L		96	80 - 120	
Chromium	0.0500	0.0484		mg/L		97	80 - 120	
Cobalt	0.0500	0.0496		mg/L		99	80 - 120	
Lead	0.0500	0.0471		mg/L		94	80 - 120	
Lithium	0.0500	0.0528		mg/L		106	80 - 120	
Molybdenum	0.0500	0.0484		mg/L		97	80 - 120	
Selenium	0.0500	0.0497		mg/L		99	80 - 120	

Lab Sample ID: LCS 400-321514/2-A ^1
Matrix: Water
Analysis Batch: 321877

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 321514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
Antimony	0.0500	0.0510		mg/L		102	80 - 120	
Cadmium	0.0500	0.0524		mg/L		105	80 - 120	
Thallium	0.0100	0.00994		mg/L		99	80 - 120	

Lab Sample ID: LCS 400-321514/2-A ^1
Matrix: Water
Analysis Batch: 322475

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 321514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
Antimony	0.0500	0.0534		mg/L		107	80 - 120	
Boron	0.100	0.0872		mg/L		87	80 - 120	
Cadmium	0.0500	0.0531		mg/L		106	80 - 120	
Calcium	5.00	4.92		mg/L		98	80 - 120	
Lithium	0.0500	0.0516		mg/L		103	80 - 120	
Thallium	0.0100	0.0105		mg/L		105	80 - 120	

Lab Sample ID: LCS 400-321514/2-A ^1
Matrix: Water
Analysis Batch: 322885

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 321514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
Antimony	0.0500	0.0505		mg/L		101	80 - 120	
Boron	0.100	0.0963		mg/L		96	80 - 120	
Cadmium	0.0500	0.0503		mg/L		101	80 - 120	
Calcium	5.00	4.87		mg/L		97	80 - 120	
Lithium	0.0500	0.0527		mg/L		105	80 - 120	
Thallium	0.0100	0.0101		mg/L		101	80 - 120	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

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

Lab Sample ID: 400-126524-2 MS

Matrix: Water

Analysis Batch: 321660

Client Sample ID: MW-03

Prep Type: Total Recoverable

Prep Batch: 321514

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	%Rec.
	Result	Qualifier	Added	Result	Qualifier					
Arsenic	0.00046	U	0.0500	0.0528		mg/L		106	75 - 125	
Barium	0.016		0.0500	0.0625		mg/L		93	75 - 125	
Beryllium	0.00034	U	0.0500	0.0530		mg/L		106	75 - 125	
Boron	0.021	U	0.100	0.105		mg/L		105	75 - 125	
Calcium	1.7		5.00	6.69		mg/L		100	75 - 125	
Chromium	0.0049		0.0500	0.0551		mg/L		100	75 - 125	
Cobalt	0.00040	U	0.0500	0.0515		mg/L		103	75 - 125	
Lead	0.00039	I	0.0500	0.0485		mg/L		96	75 - 125	
Lithium	0.013		0.0500	0.0680		mg/L		110	75 - 125	
Molybdenum	0.00085	U	0.0500	0.0501		mg/L		100	75 - 125	
Selenium	0.00024	U	0.0500	0.0517		mg/L		103	75 - 125	

Lab Sample ID: 400-126524-2 MSD

Matrix: Water

Analysis Batch: 321660

Client Sample ID: MW-03

Prep Type: Total Recoverable

Prep Batch: 321514

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Arsenic	0.00046	U	0.0500	0.0534		mg/L		107	75 - 125	1	20
Barium	0.016		0.0500	0.0628		mg/L		93	75 - 125	1	20
Beryllium	0.00034	U	0.0500	0.0524		mg/L		105	75 - 125	1	20
Boron	0.021	U	0.100	0.100		mg/L		100	75 - 125	5	20
Calcium	1.7		5.00	6.36		mg/L		94	75 - 125	5	20
Chromium	0.0049		0.0500	0.0536		mg/L		98	75 - 125	3	20
Cobalt	0.00040	U	0.0500	0.0515		mg/L		103	75 - 125	0	20
Lead	0.00039	I	0.0500	0.0471		mg/L		94	75 - 125	3	20
Lithium	0.013		0.0500	0.0662		mg/L		106	75 - 125	3	20
Molybdenum	0.00085	U	0.0500	0.0482		mg/L		96	75 - 125	4	20
Selenium	0.00024	U	0.0500	0.0486		mg/L		97	75 - 125	6	20

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

Lab Sample ID: 400-126524-2 MS

Matrix: Water

Analysis Batch: 321877

Client Sample ID: MW-03

Prep Type: Total Recoverable

Prep Batch: 321514

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	%Rec.
	Result	Qualifier	Added	Result	Qualifier					
Antimony - RA	0.0010	U	0.0500	0.0507		mg/L		101	75 - 125	
Cadmium - RA	0.00034	U	0.0500	0.0518		mg/L		104	75 - 125	
Thallium - RA	0.000085	U	0.0100	0.0101		mg/L		101	75 - 125	

Lab Sample ID: 400-126524-2 MSD

Matrix: Water

Analysis Batch: 321877

Client Sample ID: MW-03

Prep Type: Total Recoverable

Prep Batch: 321514

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Antimony - RA	0.0010	U	0.0500	0.0499		mg/L		100	75 - 125	2	20
Cadmium - RA	0.00034	U	0.0500	0.0535		mg/L		107	75 - 125	3	20
Thallium - RA	0.000085	U	0.0100	0.0101		mg/L		101	75 - 125	0	20

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-321401/14-A
Matrix: Water
Analysis Batch: 321663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 321401

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		09/06/16 09:07	09/07/16 12:55	1

Lab Sample ID: LCS 400-321401/15-A
Matrix: Water
Analysis Batch: 321663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 321401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000993		mg/L		99	80 - 120

Lab Sample ID: 400-126524-1 MS
Matrix: Water
Analysis Batch: 321663

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 321401

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.000070	U	0.00201	0.00178		mg/L		88	80 - 120

Lab Sample ID: 400-126524-1 MSD
Matrix: Water
Analysis Batch: 321663

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 321401

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.000070	U	0.00201	0.00186		mg/L		92	80 - 120	4	20

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

Lab Sample ID: MB 400-321099/1
Matrix: Water
Analysis Batch: 321099

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			09/01/16 16:06	1

Lab Sample ID: LCS 400-321099/2
Matrix: Water
Analysis Batch: 321099

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	258		mg/L		88	78 - 122

Lab Sample ID: MB 400-321249/1
Matrix: Water
Analysis Batch: 321249

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			09/02/16 16:55	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

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

Lab Sample ID: LCS 400-321249/2
Matrix: Water
Analysis Batch: 321249

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	288		mg/L		98	78 - 122

Lab Sample ID: 400-126524-1 DU
Matrix: Water
Analysis Batch: 321249

Client Sample ID: MW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	200		200		mg/L		0	5

Lab Sample ID: MB 400-321321/1
Matrix: Water
Analysis Batch: 321321

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			09/03/16 13:40	1

Lab Sample ID: LCS 400-321321/2
Matrix: Water
Analysis Batch: 321321

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: 400-126513-C-4 DU
Matrix: Water
Analysis Batch: 321321

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	84		82.0		mg/L		2	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-321548/5
Matrix: Water
Analysis Batch: 321548

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			09/06/16 12:14	1

Lab Sample ID: LCS 400-321548/11
Matrix: Water
Analysis Batch: 321548

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	29.1		mg/L		97	90 - 110

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

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

Lab Sample ID: MRL 400-321548/3
Matrix: Water
Analysis Batch: 321548

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	I	mg/L		60	50 - 150

Lab Sample ID: 400-126464-C-6 MS
Matrix: Water
Analysis Batch: 321548

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	3.7		10.0	16.5	J3	mg/L		127	73 - 120

Lab Sample ID: 400-126464-C-6 MSD
Matrix: Water
Analysis Batch: 321548

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	3.7		10.0	16.5	J3	mg/L		127	73 - 120	0	8

Lab Sample ID: 400-126524-8 DU
Matrix: Water
Analysis Batch: 321548

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	2900		2870		mg/L		2	8

Lab Sample ID: MB 400-321726/6
Matrix: Water
Analysis Batch: 321726

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			09/07/16 09:44	1

Lab Sample ID: LCS 400-321726/7
Matrix: Water
Analysis Batch: 321726

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	29.5		mg/L		98	90 - 110

Lab Sample ID: MRL 400-321726/3
Matrix: Water
Analysis Batch: 321726

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	1.32	I	mg/L		66	50 - 150

Lab Sample ID: 400-126706-A-2 MS
Matrix: Water
Analysis Batch: 321726

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	62		20.0	69.8	J3	mg/L		41	73 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Lab Sample ID: 400-126706-A-2 MSD
Matrix: Water
Analysis Batch: 321726

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	62		20.0	70.0	J3	mg/L		41	73 - 120	0	8

Lab Sample ID: 400-126706-A-1 DU
Matrix: Water
Analysis Batch: 321726

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	45		45.8		mg/L		3	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-321016/3
Matrix: Water
Analysis Batch: 321016

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			08/31/16 17:33	1

Lab Sample ID: 400-126524-1 MS
Matrix: Water
Analysis Batch: 321016

Client Sample ID: MW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.16		1.00	1.19		mg/L		103	75 - 125

Lab Sample ID: 400-126524-1 MSD
Matrix: Water
Analysis Batch: 321016

Client Sample ID: MW-02
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		1.00	1.17		mg/L		101	75 - 125	2	4

Lab Sample ID: MB 400-323583/4
Matrix: Water
Analysis Batch: 323583

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			09/21/16 12:18	1

Lab Sample ID: LCS 400-323583/5
Matrix: Water
Analysis Batch: 323583

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

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-126524-10 MS

Matrix: Water

Analysis Batch: 323583

Client Sample ID: MW-13

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.050	I	1.00	0.970		mg/L		92	75 - 125

Lab Sample ID: 400-126524-10 MSD

Matrix: Water

Analysis Batch: 323583

Client Sample ID: MW-13

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.050	I	1.00	0.990		mg/L		94	75 - 125	2	4

Lab Sample ID: 400-126524-17 DU

Matrix: Water

Analysis Batch: 323583

Client Sample ID: DUP-02

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.040	I	0.0400	I	mg/L		0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-321549/6

Matrix: Water

Analysis Batch: 321549

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			09/06/16 12:16	1

Lab Sample ID: LCS 400-321549/7

Matrix: Water

Analysis Batch: 321549

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	15.3		mg/L		102	90 - 110

Lab Sample ID: MRL 400-321549/3

Matrix: Water

Analysis Batch: 321549

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	4.56	I	mg/L		91	50 - 150

Lab Sample ID: 400-126464-C-6 MS

Matrix: Water

Analysis Batch: 321549

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	U	10.0	10.1		mg/L		101	77 - 128

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

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

Lab Sample ID: 400-126464-C-6 MSD
Matrix: Water
Analysis Batch: 321549

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	U	10.0	10.0		mg/L		100	77 - 128	0	5

Lab Sample ID: 400-126524-8 DU
Matrix: Water
Analysis Batch: 321549

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	350		344		mg/L		1	5

Lab Sample ID: MB 400-321727/6
Matrix: Water
Analysis Batch: 321727

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			09/07/16 09:46	1

Lab Sample ID: LCS 400-321727/7
Matrix: Water
Analysis Batch: 321727

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	16.0		mg/L		106	90 - 110

Lab Sample ID: MRL 400-321727/3
Matrix: Water
Analysis Batch: 321727

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	4.45	I	mg/L		89	50 - 150

Lab Sample ID: 400-126464-C-4 MS
Matrix: Water
Analysis Batch: 321727

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	U	10.0	10.3		mg/L		103	77 - 128

Lab Sample ID: 400-126464-C-4 MSD
Matrix: Water
Analysis Batch: 321727

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	U	10.0	10.2		mg/L		102	77 - 128	0	5

Lab Sample ID: 400-126464-C-3 DU
Matrix: Water
Analysis Batch: 321727

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	U	1.4	U	mg/L		NC	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

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Client Information
 Client Contact: Kristi Mitchell
 Company: Gulf Power Company
 Address: BIN 731 One Energy Place
 City: Pensacola
 State, Zip: FL, 32520
 Phone: 850-444-6427 (Tel)
 Email: krmitch@southernco.com
 Project Name: CCR Smith Plant
 Site:

Sampler: *Brett Scales*
 Phone: *850 380 3458*
 Lab PM: Whitmore, Cheyenne R
 E-Mail: cheyenne.whitmore@testamericainc.com
 Carrier Tracking No(s): 400-53432-23665.1
 Page: Page 1 of 2
 Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, A=As)	Analysis Requested		Special Instructions/Note:
					Field Sampling - Field Sampling Parameters	Field Number of Containers	
MW-02	8/29/16	1001	G	Water	X		
MW-03	8/29/16	1517		Water	X		
MW-06	8/29/16	1555		Water	X		
MW-07	8/29/16	1512		Water	X		
MW-08	8/29/16	1441		Water	X		
MW-09	8/30/16	0717		Water	X		
MW-10	8/30/16	0822		Water	X		
MW-11	8/30/16	0948		Water	X		
MW-12	8/29/16	1031		Water	X		
MW-13	8/29/16	1207		Water	X		
MW-14	8/29/16	1616	G	Water	X		

Due Date Requested:
 TAT Requested (days):
 PO #:
 Purchase Order not required
 WO #:
 Project #: 40006609
 SSOW #:

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 - Na2OAS
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 X - EDTA
 Z - other (specify)

Special Instructions/Note:

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: *Kristi Mitchell*
 Date: 8/30/16 1608
 Company: *RDH*
 Relinquished by: *Kristi Mitchell*
 Date/Time: 8/30/16 1108
 Company: *TA*
 Relinquished by:
 Date/Time:
 Company:

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



Chain of Custody Record

Client Information
 Client Contact: Kristi Mitchell
 Company: Gulf Power Company
 Address: BIN 731 One Energy Place
 City: Pensacola
 State, Zip: FL, 32520
 Phone: 850-444-6427 (Tel)
 Email: kmitch@southernco.com
 Project Name: CCR Smith Plant
 Site:

Sampler: *Best Sales*
 Lab PM: Whitmore, Cheyenne R
 Phone: 850 380 3458
 E-Mail: cheyenne.whitmore@testamericainc.com

Carrier Tracking No(s):
 COC No: 400-53432-23665.2
 Page: Page 2 of 2
 Job #:

Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required
 WO #:
 Project #: 40006609
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil)	Field Sampling - Field Sampling Parameters			Total Number of Containers	Special Instructions/Note:
					Form MS/MSD (Yes or No)	P	D		
FB-01	8/29/16	1518	G	Water	Y	Y	Y		
EB-01	8/29/16	1405		Water	Y	Y	Y		
DUP-01	8/29/16	1341		Water	Y	Y	Y		
FB-02	8/30/16	0955		Water	Y	Y	Y		
EB-02	8/30/16	1005		Water	Y	Y	Y		
DUP-02	8/30/16	0617	G	Water	Y	Y	Y		
				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:
 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)

Analysis Requested

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Possible Hazard Identification
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by:
 Relinquished by: *[Signature]*
 Date/Time: 8/30/16 1608
 Company: *[Signature]*
 Relinquished by: _____
 Date/Time: _____
 Company: _____
 Relinquished by: _____
 Date/Time: _____
 Company: _____

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

Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-126524-1

Login Number: 126524

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.	N/A	
Cooler Temperature is acceptable.	True	1.0, 0.0, 0.2, 0.8, 1.1°C, IR-2
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-1

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 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: 400-126524-2

Client Project/Site: CCR Smith Plant

For:

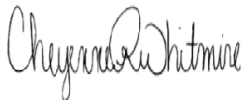
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

10/17/2016 4:44:21 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Job ID: 400-126524-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-126524-2

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch: 160-270307: Insufficient volume was available to perform sample duplicate (DUP) for the following samples: MW-02 (400-126524-1), MW-03 (400-126524-2), MW-06 (400-126524-3), MW-07 (400-126524-4), MW-08 (400-126524-5), MW-09 (400-126524-6), MW-10 (400-126524-7), MW-11 (400-126524-8), MW-12 (400-126524-9), MW-13 (400-126524-10), MW-14 (400-126524-11), FB-01 (400-126524-12), EB-01 (400-126524-13), DUP-01 (400-126524-14), FB-02 (400-126524-15), EB-02 (400-126524-16) and DUP-02 (400-126524-17).A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method(s) PrecSep_0: Radium-228 Prep Batch: 160-270307: The following samples were prepared at a reduced aliquot due to sediment in sample. MW-03 (400-126524-2).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: 160-270303: Insufficient sample volume was available to perform sample duplicate (DUP) for the following samples:MW-02 (400-126524-1), MW-03 (400-126524-2), MW-06 (400-126524-3), MW-07 (400-126524-4), MW-08 (400-126524-5), MW-09 (400-126524-6), MW-10 (400-126524-7), MW-11 (400-126524-8), MW-12 (400-126524-9), MW-13 (400-126524-10), MW-14 (400-126524-11), FB-01 (400-126524-12), EB-01 (400-126524-13), DUP-01 (400-126524-14), FB-02 (400-126524-15), EB-02 (400-126524-16) and DUP-02 (400-126524-17).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: 160-270303: The following samples were prepared at a reduced aliquot due to sediment in sample. MW-03 (400-126524-2).A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-126524-1	MW-02	Water	08/29/16 10:01	08/30/16 16:08
400-126524-2	MW-03	Water	08/29/16 13:17	08/30/16 16:08
400-126524-3	MW-06	Water	08/29/16 15:55	08/30/16 16:08
400-126524-4	MW-07	Water	08/29/16 15:12	08/30/16 16:08
400-126524-5	MW-08	Water	08/29/16 14:41	08/30/16 16:08
400-126524-6	MW-09	Water	08/30/16 07:17	08/30/16 16:08
400-126524-7	MW-10	Water	08/30/16 08:22	08/30/16 16:08
400-126524-8	MW-11	Water	08/30/16 09:48	08/30/16 16:08
400-126524-9	MW-12	Water	08/29/16 10:31	08/30/16 16:08
400-126524-10	MW-13	Water	08/29/16 12:07	08/30/16 16:08
400-126524-11	MW-14	Water	08/29/16 16:16	08/30/16 16:08
400-126524-12	FB-01	Water	08/29/16 15:18	08/30/16 16:08
400-126524-13	EB-01	Water	08/29/16 14:05	08/30/16 16:08
400-126524-14	DUP-01	Water	08/29/16 13:41	08/30/16 16:08
400-126524-15	FB-02	Water	08/30/16 09:55	08/30/16 16:08
400-126524-16	EB-02	Water	08/30/16 10:05	08/30/16 16:08
400-126524-17	DUP-02	Water	08/30/16 06:17	08/30/16 16:08

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-02
Date Collected: 08/29/16 10:01
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-1
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	2.93		0.258	0.369	1.00	0.121	pCi/L	09/16/16 14:26	10/10/16 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					09/16/16 14:26	10/10/16 07:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.268	U	0.259	0.260	1.00	0.418	pCi/L	09/16/16 15:01	10/04/16 16:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					09/16/16 15:01	10/04/16 16:26	1
Y Carrier	84.5		40 - 110					09/16/16 15:01	10/04/16 16:26	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.20		0.366	0.452	5.00	0.418	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-03
Date Collected: 08/29/16 13:17
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-2
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	1.36		0.259	0.286	1.00	0.213	pCi/L	09/16/16 14:26	10/10/16 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					09/16/16 14:26	10/10/16 07:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.331	U	0.452	0.453	1.00	0.755	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	84.1		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.69		0.521	0.536	5.00	0.755	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-06

Lab Sample ID: 400-126524-3

Date Collected: 08/29/16 15:55

Matrix: Water

Date Received: 08/30/16 16:08

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	9.38		0.440	0.952	1.00	0.114	pCi/L	09/16/16 14:26	10/10/16 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/16/16 14:26	10/10/16 07:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	9.57		0.752	1.16	1.00	0.450	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	81.5		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	18.9		0.871	1.50	5.00	0.450	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-07
Date Collected: 08/29/16 15:12
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-4
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	21.5		0.652	2.04	1.00	0.119	pCi/L	09/16/16 14:26	10/10/16 07:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					09/16/16 14:26	10/10/16 07:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.22		0.557	0.735	1.00	0.421	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	82.2		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	26.7		0.858	2.17	5.00	0.421	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-08
Date Collected: 08/29/16 14:41
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-5
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	16.1		0.565	1.56	1.00	0.0709	pCi/L	09/16/16 14:26	10/10/16 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					09/16/16 14:26	10/10/16 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	22.7		1.08	2.35	1.00	0.392	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	85.6		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	38.8		1.22	2.82	5.00	0.392	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-09
Date Collected: 08/30/16 07:17
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-6
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	13.3		0.510	1.30	1.00	0.0861	pCi/L	09/16/16 14:26	10/10/16 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					09/16/16 14:26	10/10/16 07:22	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	14.6		0.864	1.60	1.00	0.410	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	83.7		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	27.9		1.00	2.06	5.00	0.410	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-10
Date Collected: 08/30/16 08:22
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-7
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	6.14		0.334	0.646	1.00	0.101	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	17.8		0.941	1.89	1.00	0.442	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	83.7		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	23.9		0.999	2.00	5.00	0.442	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-11

Date Collected: 08/30/16 09:48

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-8

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	22.3		0.640	2.11	1.00	0.100	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	8.08		0.666	0.999	1.00	0.384	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	78.1		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	30.4		0.924	2.33	5.00	0.384	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-12

Date Collected: 08/29/16 10:31

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-9

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	2.15		0.212	0.287	1.00	0.110	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.300	U	0.358	0.359	1.00	0.591	pCi/L	09/16/16 15:01	10/04/16 16:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.6		40 - 110					09/16/16 15:01	10/04/16 16:27	1
Y Carrier	80.4		40 - 110					09/16/16 15:01	10/04/16 16:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.45		0.416	0.459	5.00	0.591	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-13
Date Collected: 08/29/16 12:07
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-10
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	9.94		0.439	0.997	1.00	0.0779	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	10.1		0.794	1.22	1.00	0.575	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	81.9		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	20.0		0.907	1.58	5.00	0.575	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-14
Date Collected: 08/29/16 16:16
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-11
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	3.65		0.274	0.428	1.00	0.0914	pCi/L	09/16/16 14:26	10/10/16 07:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					09/16/16 14:26	10/10/16 07:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.29		0.598	0.771	1.00	0.506	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	83.4		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	8.93		0.658	0.881	5.00	0.506	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: FB-01
Date Collected: 08/29/16 15:18
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-12
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	0.0807	U	0.0599	0.0603	1.00	0.0878	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.171	U	0.303	0.303	1.00	0.513	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	81.9		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.252	U	0.309	0.309	5.00	0.513	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: EB-01
Date Collected: 08/29/16 14:05
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-13
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	0.00409	U	0.0536	0.0536	1.00	0.102	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.573		0.349	0.353	1.00	0.540	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	86.0		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.577		0.353	0.357	5.00	0.540	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: DUP-01

Date Collected: 08/29/16 13:41

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-14

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	15.5		0.548	1.50	1.00	0.0725	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	27.2		1.20	2.77	1.00	0.465	pCi/L	09/16/16 15:01	10/04/16 16:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					09/16/16 15:01	10/04/16 16:21	1
Y Carrier	82.6		40 - 110					09/16/16 15:01	10/04/16 16:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	42.7		1.32	3.15	5.00	0.465	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: FB-02
Date Collected: 08/30/16 09:55
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-15
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0603	U	0.0527	0.0529	1.00	0.0808	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.399	U	0.281	0.283	1.00	0.438	pCi/L	09/16/16 15:01	10/04/16 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					09/16/16 15:01	10/04/16 16:22	1
Y Carrier	82.2		40 - 110					09/16/16 15:01	10/04/16 16:22	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	0.459		0.286	0.288	5.00	0.438	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: EB-02
Date Collected: 08/30/16 10:05
Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-16
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0865	U	0.0648	0.0653	1.00	0.0971	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.292	U	0.316	0.317	1.00	0.517	pCi/L	09/16/16 15:01	10/04/16 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					09/16/16 15:01	10/04/16 16:22	1
Y Carrier	81.1		40 - 110					09/16/16 15:01	10/04/16 16:22	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	0.378	U	0.322	0.323	5.00	0.517	pCi/L		10/11/16 08:41	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: DUP-02

Date Collected: 08/30/16 06:17

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-17

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	13.9		0.509	1.35	1.00	0.0723	pCi/L	09/16/16 14:26	10/10/16 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/16/16 14:26	10/10/16 07:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	15.4		1.01	1.74	1.00	0.591	pCi/L	09/16/16 15:01	10/04/16 16:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/16/16 15:01	10/04/16 16:22	1
Y Carrier	67.7		40 - 110					09/16/16 15:01	10/04/16 16:22	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	29.3		1.13	2.20	5.00	0.591	pCi/L		10/11/16 08:41	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-02

Date Collected: 08/29/16 10:01

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:26	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-03

Date Collected: 08/29/16 13:17

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-06

Date Collected: 08/29/16 15:55

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-07

Date Collected: 08/29/16 15:12

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:21	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-08

Date Collected: 08/29/16 14:41

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:22	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-09

Date Collected: 08/30/16 07:17

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273803	10/10/16 07:22	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-10

Date Collected: 08/30/16 08:22

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-11

Date Collected: 08/30/16 09:48

Date Received: 08/30/16 16:08

Lab Sample ID: 400-126524-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: MW-12

Lab Sample ID: 400-126524-9

Date Collected: 08/29/16 10:31

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273103	10/04/16 16:27	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-13

Lab Sample ID: 400-126524-10

Date Collected: 08/29/16 12:07

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: MW-14

Lab Sample ID: 400-126524-11

Date Collected: 08/29/16 16:16

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: FB-01

Lab Sample ID: 400-126524-12

Date Collected: 08/29/16 15:18

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: EB-01

Lab Sample ID: 400-126524-13

Date Collected: 08/29/16 14:05

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: DUP-01

Lab Sample ID: 400-126524-14

Date Collected: 08/29/16 13:41

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:21	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: FB-02

Lab Sample ID: 400-126524-15

Date Collected: 08/30/16 09:55

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Client Sample ID: EB-02

Lab Sample ID: 400-126524-16

Date Collected: 08/30/16 10:05

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Client Sample ID: DUP-02

Lab Sample ID: 400-126524-17

Date Collected: 08/30/16 06:17

Matrix: Water

Date Received: 08/30/16 16:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			270303	09/16/16 14:26	MCJ	TAL SL
Total/NA	Analysis	9315		1	273789	10/10/16 07:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			270307	09/16/16 15:01	MCJ	TAL SL
Total/NA	Analysis	9320		1	273098	10/04/16 16:22	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	273994	10/11/16 08:41	CAH	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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Rad

Prep Batch: 270303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	PrecSep-21	
400-126524-2	MW-03	Total/NA	Water	PrecSep-21	
400-126524-3	MW-06	Total/NA	Water	PrecSep-21	
400-126524-4	MW-07	Total/NA	Water	PrecSep-21	
400-126524-5	MW-08	Total/NA	Water	PrecSep-21	
400-126524-6	MW-09	Total/NA	Water	PrecSep-21	
400-126524-7	MW-10	Total/NA	Water	PrecSep-21	
400-126524-8	MW-11	Total/NA	Water	PrecSep-21	
400-126524-9	MW-12	Total/NA	Water	PrecSep-21	
400-126524-10	MW-13	Total/NA	Water	PrecSep-21	
400-126524-11	MW-14	Total/NA	Water	PrecSep-21	
400-126524-12	FB-01	Total/NA	Water	PrecSep-21	
400-126524-13	EB-01	Total/NA	Water	PrecSep-21	
400-126524-14	DUP-01	Total/NA	Water	PrecSep-21	
400-126524-15	FB-02	Total/NA	Water	PrecSep-21	
400-126524-16	EB-02	Total/NA	Water	PrecSep-21	
400-126524-17	DUP-02	Total/NA	Water	PrecSep-21	
MB 160-270303/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-270303/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-270303/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 270307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-126524-1	MW-02	Total/NA	Water	PrecSep_0	
400-126524-2	MW-03	Total/NA	Water	PrecSep_0	
400-126524-3	MW-06	Total/NA	Water	PrecSep_0	
400-126524-4	MW-07	Total/NA	Water	PrecSep_0	
400-126524-5	MW-08	Total/NA	Water	PrecSep_0	
400-126524-6	MW-09	Total/NA	Water	PrecSep_0	
400-126524-7	MW-10	Total/NA	Water	PrecSep_0	
400-126524-8	MW-11	Total/NA	Water	PrecSep_0	
400-126524-9	MW-12	Total/NA	Water	PrecSep_0	
400-126524-10	MW-13	Total/NA	Water	PrecSep_0	
400-126524-11	MW-14	Total/NA	Water	PrecSep_0	
400-126524-12	FB-01	Total/NA	Water	PrecSep_0	
400-126524-13	EB-01	Total/NA	Water	PrecSep_0	
400-126524-14	DUP-01	Total/NA	Water	PrecSep_0	
400-126524-15	FB-02	Total/NA	Water	PrecSep_0	
400-126524-16	EB-02	Total/NA	Water	PrecSep_0	
400-126524-17	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-270307/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-270307/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-270307/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-270303/1-A
Matrix: Water
Analysis Batch: 273710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270303

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1667		0.0686	0.0703	1.00	0.0769	pCi/L	09/16/16 14:26	10/10/16 07:18	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					09/16/16 14:26	10/10/16 07:18	1

Lab Sample ID: LCS 160-270303/2-A
Matrix: Water
Analysis Batch: 273803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270303

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	13.47		1.32	1.00	0.0936	pCi/L	121	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	93.7		40 - 110						

Lab Sample ID: LCSD 160-270303/3-A
Matrix: Water
Analysis Batch: 273803

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270303

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.1	14.28		1.39	1.00	0.0764	pCi/L	129	68 - 137	0.30	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	95.7		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-270307/1-A
Matrix: Water
Analysis Batch: 273103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 270307

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1428	U	0.235	0.235	1.00	0.398	pCi/L	09/16/16 15:01	10/04/16 16:26	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					09/16/16 15:01	10/04/16 16:26	1
Y Carrier	78.9		40 - 110					09/16/16 15:01	10/04/16 16:26	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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

Lab Sample ID: LCS 160-270307/2-A
Matrix: Water
Analysis Batch: 273103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 270307

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.5	15.92		1.73	1.00	0.478	pCi/L	110	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.7		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: LCSD 160-270307/3-A
Matrix: Water
Analysis Batch: 273103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 270307

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.5	16.50		1.77	1.00	0.408	pCi/L	114	56 - 140	0.17	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	95.7		40 - 110
Y Carrier	81.5		40 - 110

Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s): 400-53432-23665.1	
Client Contact: Kristi Mitchell		Phone: 850 380 3458		Page: 1 of 2	
Company: Gulf Power Company		E-Mail: cheyenne.whitmire@testamericainc.com		Job #:	
Address: BIN 731 One Energy Place		Due Date Requested:		Preservation Codes:	
City: Pensacola		TAT Requested (days):		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:	
State: FL, 32520		PO #: Purchase Order not required		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone: 850-444-6427(Tel)		WO #:		Total Number of Containers	
Email: krmitch@southernco.com		Project #: 40006609		Special Instructions/Note:	
Project Name: CCR Smith Plant		SSOW #:			
Site:					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, A=air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Field Sampling - Field Sampling Parameters		Analysis Requested	Total Number of Containers	Special Instructions/Note:
					MS/MSD	MSD	MS/MSD	MSD	MS/MSD	MSD			
MW-02	8/29/16	1001	G	Water	X	X	X	X	X	X			
MW-03	8/29/16	1317		Water									
MW-06	8/29/16	1555		Water									
MW-07	8/29/16	1512		Water									
MW-08	8/29/16	1441		Water									
MW-09	9/30/16	0717		Water									
MW-10	8/30/16	0822		Water									
MW-11	8/30/16	0948		Water									
MW-12	8/29/16	1031		Water									
MW-13	8/29/16	1207		Water									
MW-14	8/29/16	1616	G	Water	X	X	X	X	X	X			

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: 8/30/16 1608 Company: RPH
 Relinquished by: *[Signature]*
 Relinquished by: Date/Time: Company: Company
 Relinquished by: Date/Time: Company: Company

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



Chain of Custody Record

Client Information Client Contact: Kristi Mitchell Company: Gulf Power Company Address: BIN 731 One Energy Place City: Pensacola State, Zip: FL, 32520 Phone: 850-444-6427 (Tel) Email: kmitch@southernco.com Project Name: CCR Smith Plant Site:		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-53432-23665.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Analysis Requested Field Sampling - Field Sampling Parameters Mercury 6020 - Sp,As,Ba,B,Be,Ca,Cd,Cr,Cu,Pb,Li,Mn,Se,Ti,7470A - 5M4500 Cl, E - Chloride, 5M4500 SO4 E - Sulfate, 2540C - 9315_Ra226, 9320_Ra228, Ra228Ra228_GFPc Total Dissolved Solids, 4500 F, C - Fluoride Total Number of Containers	
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=oil, A=air) Preservation Codes (BT=Tris, A=As) Field Filtered Sample (Yes or No) Field Form 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)	
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	
Empty Kit Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by:		Method of Shipment: Date/Time: 8/30/16 1608 Date/Time: 8/30/16 1608 Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-126524-2

Login Number: 126524

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.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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.

TestAmerica Pensacola

Certification Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-126524-2

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	T104704193-16-10	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 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: 400-129627-1

Client Project/Site: CCR Smith Plant

For:

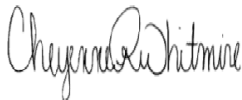
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

12/5/2016 11:51:51 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Job ID: 400-129627-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-129627-1

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-6 (400-129627-3), MW-7 (400-129627-4), MW-8 (400-129627-5), MW-9 (400-129627-6), MW-10 (400-129627-7), MW-11 (400-129627-8), MW-13 (400-129627-10), MW-14 (400-129627-11), DUP-02 (400-129627-13) and DUP-03 (400-129627-18). Elevated reporting limits (RLs) are provided.

General Chemistry

Method(s) SM 4500 Cl- E: The method reporting limit standard (MRL) result for batch 331353 was above the upper control limit. The initial and continuing calibration verification (ICV, CCV), the lab control sample (LCS) and the matrix spike and duplicate (MS/MSD) passed criteria therefore the data have been reported as qualified data.

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Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-2

Lab Sample ID: 400-129627-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.023		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	49		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0018	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.0087		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	220		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	0.17		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-129627-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.018		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0026		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.013		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	64		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
Field pH	4.91				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-129627-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0012	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.076		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00087	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.013		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Boron - DL	10		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	350		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	6500		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	3600		160	48	mg/L	80		SM 4500 Cl- E	Total/NA
Sulfate	530		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	5.20				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-129627-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0022		0.0013	0.00046	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 400-129627-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.069		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum	0.0066	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	2.8		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	200		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3800		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	1700		80	24	mg/L	40		SM 4500 Cl- E	Total/NA
Sulfate	570		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	6.09				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-129627-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.072		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.0012	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0078		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Boron - DL	22		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	590		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	7400		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	3800		160	48	mg/L	80		SM 4500 Cl- E	Total/NA
Sulfate	580		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	4.63				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-129627-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0034		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Lithium	0.0055		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Boron - DL	16		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	420		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	5000		250	170	mg/L	1		SM 2540C	Total/NA
Chloride	2800		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	510		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	5.99				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-129627-7

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-10 (Continued)

Lab Sample ID: 400-129627-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0023		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00040	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0067		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.00097	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	13		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	550		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	6900		250	170	mg/L	1		SM 2540C	Total/NA
Chloride	3000		140	42	mg/L	70		SM 4500 Cl- E	Total/NA
Sulfate	560		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	5.07				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-129627-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	4.0		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	140		5.0	2.5	mg/L	100		6020	Total Recoverable
Antimony - RA	0.0015	I	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Arsenic - RA	0.028		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium - RA	0.13		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium - RA	0.0030		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum - RA	0.013	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium - RA	0.00058	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	4400		250	170	mg/L	1		SM 2540C	Total/NA
Chloride	2900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	330		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	6.54				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-129627-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium - RA	0.016		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron - RA	0.10		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium - RA	36		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium - RA	0.011		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	540		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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-12 (Continued)

Lab Sample ID: 400-129627-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	230		40	12	mg/L	20		SM 4500 Cl- E	Total/NA
Fluoride	0.080	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	6.03				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-129627-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	26		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium	860		10	5.0	mg/L	200		6020	Total Recoverable
Arsenic - RA	0.0020		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium - RA	0.13		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Lithium - RA	0.19		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum - RA	0.0066	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium - RA	0.00044	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	11000		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	5400		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	31		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.96				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-129627-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	19		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium	230		10	5.0	mg/L	200		6020	Total Recoverable
Arsenic - RA	0.0031		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium - RA	0.057		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum - RA	0.014	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	5500		250	170	mg/L	1		SM 2540C	Total/NA
Chloride	2700		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	570		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-129627-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic - RA	0.00050	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium - RA	0.015		0.0025	0.00049	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: DUP-01 (Continued)

Lab Sample ID: 400-129627-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - RA	0.29		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium - RA	35		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium - RA	0.011		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	550		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	230		20	6.0	mg/L	10		SM 4500 Cl- E	Total/NA
Fluoride	0.080	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	6.03				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 400-129627-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	18		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	860		10	5.0	mg/L	200		6020	Total Recoverable
Arsenic - RA	0.0018		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium - RA	0.13		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Lithium - RA	0.20		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum - RA	0.0069	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium - RA	0.00030	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	10000		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	5100		240	72	mg/L	120		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	26		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.96				SU	1		Field Sampling	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 400-129627-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	20		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 400-129627-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	22		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-02

Lab Sample ID: 400-129627-16

No Detections.

Client Sample ID: FB-02

Lab Sample ID: 400-129627-17

No Detections.

Client Sample ID: DUP-03

Lab Sample ID: 400-129627-18

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: DUP-03 (Continued)

Lab Sample ID: 400-129627-18

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	4.2		0.50	0.21	mg/L	50		6020	Total Recoverable
Calcium - DL	150		2.5	1.3	mg/L	50		6020	Total Recoverable
Antimony - RA	0.0014	I	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Arsenic - RA	0.028		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium - RA	0.13		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium - RA	0.0037		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum - RA	0.014	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium - RA	0.00042	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	4800		250	170	mg/L	1		SM 2540C	Total/NA
Chloride	2800		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	330		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	6.54				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-129627-1	MW-2	Water	11/01/16 09:19	11/03/16 13:50
400-129627-2	MW-3	Water	11/01/16 13:29	11/03/16 13:50
400-129627-3	MW-6	Water	11/02/16 12:33	11/03/16 13:50
400-129627-4	MW-7	Water	11/02/16 13:42	11/03/16 13:50
400-129627-5	MW-8	Water	11/02/16 09:27	11/03/16 13:50
400-129627-6	MW-9	Water	11/03/16 10:59	11/03/16 13:50
400-129627-7	MW-10	Water	11/03/16 09:27	11/03/16 13:50
400-129627-8	MW-11	Water	11/03/16 07:48	11/03/16 13:50
400-129627-9	MW-12	Water	11/01/16 14:47	11/03/16 13:50
400-129627-10	MW-13	Water	11/02/16 07:58	11/03/16 13:50
400-129627-11	MW-14	Water	11/03/16 10:47	11/03/16 13:50
400-129627-12	DUP-01	Water	11/01/16 13:37	11/03/16 13:50
400-129627-13	DUP-02	Water	11/02/16 06:58	11/03/16 13:50
400-129627-14	EB-01	Water	11/02/16 13:55	11/03/16 13:50
400-129627-15	FB-01	Water	11/02/16 12:45	11/03/16 13:50
400-129627-16	EB-02	Water	11/03/16 11:02	11/03/16 13:50
400-129627-17	FB-02	Water	11/03/16 09:40	11/03/16 13:50
400-129627-18	DUP-03	Water	11/03/16 06:48	11/03/16 13:50

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-2
Date Collected: 11/01/16 09:19
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/11/16 22:41	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		11/09/16 09:35	11/11/16 22:41	5
Barium	0.023		0.0025	0.00049	mg/L		11/09/16 09:35	11/11/16 22:41	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:41	5
Boron	0.021	U	0.050	0.021	mg/L		11/09/16 09:35	11/11/16 22:41	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:41	5
Calcium	49		0.25	0.13	mg/L		11/09/16 09:35	11/11/16 22:41	5
Chromium	0.0018	I	0.0025	0.0011	mg/L		11/09/16 09:35	11/11/16 22:41	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/11/16 22:41	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/11/16 22:41	5
Lithium	0.0087		0.0050	0.0032	mg/L		11/09/16 09:35	11/11/16 22:41	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/11/16 22:41	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/11/16 22:41	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/11/16 22:41	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:24	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	220		5.0	3.4	mg/L			11/08/16 16:49	1
Chloride	11		2.0	0.60	mg/L			11/15/16 12:15	1
Fluoride	0.17		0.10	0.032	mg/L			11/17/16 11:52	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/15/16 12:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.65				SU			11/01/16 09:19	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-3
Date Collected: 11/01/16 13:29
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/11/16 22:46	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		11/09/16 09:35	11/11/16 22:46	5
Barium	0.018		0.0025	0.00049	mg/L		11/09/16 09:35	11/11/16 22:46	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:46	5
Boron	0.021	U	0.050	0.021	mg/L		11/09/16 09:35	11/11/16 22:46	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:46	5
Calcium	1.9		0.25	0.13	mg/L		11/09/16 09:35	11/11/16 22:46	5
Chromium	0.0026		0.0025	0.0011	mg/L		11/09/16 09:35	11/11/16 22:46	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/11/16 22:46	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/11/16 22:46	5
Lithium	0.013		0.0050	0.0032	mg/L		11/09/16 09:35	11/11/16 22:46	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/11/16 22:46	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/11/16 22:46	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/11/16 22:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	64		5.0	3.4	mg/L			11/08/16 16:49	1
Chloride	11		2.0	0.60	mg/L			11/15/16 12:15	1
Fluoride	0.032	U	0.10	0.032	mg/L			11/17/16 11:58	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/15/16 12:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.91				SU			11/01/16 13:29	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-6
Date Collected: 11/02/16 12:33
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/11/16 23:35	5
Arsenic	0.0012	I	0.0013	0.00046	mg/L		11/09/16 09:35	11/11/16 23:35	5
Barium	0.076		0.0025	0.00049	mg/L		11/09/16 09:35	11/11/16 23:35	5
Beryllium	0.00087	I	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 23:35	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 23:35	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/11/16 23:35	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/11/16 23:35	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/11/16 23:35	5
Lithium	0.013		0.0050	0.0032	mg/L		11/09/16 09:35	11/11/16 23:35	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/11/16 23:35	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/11/16 23:35	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/11/16 23:35	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10		1.0	0.42	mg/L		11/09/16 09:35	11/11/16 23:40	100
Calcium	350		5.0	2.5	mg/L		11/09/16 09:35	11/11/16 23:40	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6500		50	34	mg/L			11/09/16 17:36	1
Chloride	3600		160	48	mg/L			11/15/16 15:47	80
Fluoride	0.032	U	0.10	0.032	mg/L			11/17/16 12:05	1
Sulfate	530		150	42	mg/L			11/15/16 14:06	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.20				SU			11/02/16 12:33	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-7
Date Collected: 11/02/16 13:42
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-4
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/11/16 23:44	5
Arsenic	0.0022		0.0013	0.00046	mg/L		11/09/16 09:35	11/11/16 23:44	5
Barium	0.069		0.0025	0.00049	mg/L		11/09/16 09:35	11/11/16 23:44	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 23:44	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 23:44	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/11/16 23:44	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/11/16 23:44	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/11/16 23:44	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		11/09/16 09:35	11/11/16 23:44	5
Molybdenum	0.0066	I	0.015	0.00085	mg/L		11/09/16 09:35	11/11/16 23:44	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/11/16 23:44	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/11/16 23:44	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.8		0.25	0.11	mg/L		11/09/16 09:35	11/11/16 23:49	25
Calcium	200		1.3	0.63	mg/L		11/09/16 09:35	11/11/16 23:49	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:32	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3800		25	17	mg/L			11/09/16 17:36	1
Chloride	1700		80	24	mg/L			11/15/16 15:47	40
Fluoride	0.032	U	0.10	0.032	mg/L			11/17/16 12:08	1
Sulfate	570		150	42	mg/L			11/15/16 14:06	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.09				SU			11/02/16 13:42	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-8

Date Collected: 11/02/16 09:27

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-5

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/11/16 23:53	5
Arsenic	0.0017		0.0013	0.00046	mg/L		11/09/16 09:35	11/11/16 23:53	5
Barium	0.072		0.0025	0.00049	mg/L		11/09/16 09:35	11/11/16 23:53	5
Beryllium	0.0012	I	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 23:53	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 23:53	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/11/16 23:53	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/11/16 23:53	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/11/16 23:53	5
Lithium	0.0078		0.0050	0.0032	mg/L		11/09/16 09:35	11/11/16 23:53	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/11/16 23:53	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/11/16 23:53	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/11/16 23:53	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	22		2.0	0.84	mg/L		11/09/16 09:35	11/11/16 23:58	200
Calcium	590		10	5.0	mg/L		11/09/16 09:35	11/11/16 23:58	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7400		50	34	mg/L			11/09/16 17:36	1
Chloride	3800		160	48	mg/L			11/15/16 15:47	80
Fluoride	0.032	U	0.10	0.032	mg/L			11/17/16 12:11	1
Sulfate	580		100	28	mg/L			11/15/16 14:44	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.63				SU			11/02/16 09:27	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-9

Date Collected: 11/03/16 10:59

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-6

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/12/16 00:02	5
Arsenic	0.0034		0.0013	0.00046	mg/L		11/09/16 09:35	11/12/16 00:02	5
Barium	0.12		0.0025	0.00049	mg/L		11/09/16 09:35	11/12/16 00:02	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/12/16 00:02	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/12/16 00:02	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/12/16 00:02	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/12/16 00:02	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/12/16 00:02	5
Lithium	0.0055		0.0050	0.0032	mg/L		11/09/16 09:35	11/12/16 00:02	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/12/16 00:02	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/12/16 00:02	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/12/16 00:02	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	16		2.0	0.84	mg/L		11/09/16 09:35	11/12/16 00:07	200
Calcium	420		10	5.0	mg/L		11/09/16 09:35	11/12/16 00:07	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5000		250	170	mg/L			11/10/16 18:58	1
Chloride	2800		120	36	mg/L			11/15/16 15:47	60
Fluoride	0.040	I	0.10	0.032	mg/L			11/21/16 15:58	1
Sulfate	510		100	28	mg/L			11/15/16 14:06	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.99				SU			11/03/16 10:59	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-10
Date Collected: 11/03/16 09:27
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-7
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/12/16 00:11	5
Arsenic	0.0023		0.0013	0.00046	mg/L		11/09/16 09:35	11/12/16 00:11	5
Barium	0.12		0.0025	0.00049	mg/L		11/09/16 09:35	11/12/16 00:11	5
Beryllium	0.00040	I	0.0025	0.00034	mg/L		11/09/16 09:35	11/12/16 00:11	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/12/16 00:11	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/12/16 00:11	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/12/16 00:11	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/12/16 00:11	5
Lithium	0.0067		0.0050	0.0032	mg/L		11/09/16 09:35	11/12/16 00:11	5
Molybdenum	0.00097	I	0.015	0.00085	mg/L		11/09/16 09:35	11/12/16 00:11	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/12/16 00:11	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/12/16 00:11	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13		2.0	0.84	mg/L		11/09/16 09:35	11/12/16 00:38	200
Calcium	550		10	5.0	mg/L		11/09/16 09:35	11/12/16 00:38	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6900		250	170	mg/L			11/10/16 18:58	1
Chloride	3000		140	42	mg/L			11/16/16 12:47	70
Fluoride	0.032	U	0.10	0.032	mg/L			11/21/16 16:21	1
Sulfate	560		100	28	mg/L			11/15/16 14:44	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.07				SU			11/03/16 09:27	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-11

Date Collected: 11/03/16 07:48

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-8

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.0		1.0	0.42	mg/L		11/09/16 09:35	11/14/16 14:17	100
Calcium	140		5.0	2.5	mg/L		11/09/16 09:35	11/14/16 14:17	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0015	I	0.0025	0.0010	mg/L		11/09/16 09:35	11/14/16 15:03	5
Arsenic	0.028		0.0013	0.00046	mg/L		11/09/16 09:35	11/14/16 15:03	5
Barium	0.13		0.0025	0.00049	mg/L		11/09/16 09:35	11/14/16 15:03	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:03	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:03	5
Chromium	0.0030		0.0025	0.0011	mg/L		11/09/16 09:35	11/14/16 15:03	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/14/16 15:03	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/14/16 15:03	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		11/09/16 09:35	11/14/16 15:03	5
Molybdenum	0.013	I	0.015	0.00085	mg/L		11/09/16 09:35	11/14/16 15:03	5
Selenium	0.00058	I	0.0013	0.00024	mg/L		11/09/16 09:35	11/14/16 15:03	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/14/16 15:03	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4400		250	170	mg/L			11/10/16 18:58	1
Chloride	2900		200	60	mg/L			11/15/16 15:54	100
Fluoride	0.032	U	0.10	0.032	mg/L			11/21/16 16:24	1
Sulfate	330		100	28	mg/L			11/15/16 14:44	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.54				SU			11/03/16 07:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-12

Date Collected: 11/01/16 14:47

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-9

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/14/16 15:07	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		11/09/16 09:35	11/14/16 15:07	5
Barium	0.016		0.0025	0.00049	mg/L		11/09/16 09:35	11/14/16 15:07	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:07	5
Boron	0.10		0.050	0.021	mg/L		11/09/16 09:35	11/14/16 15:07	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:07	5
Calcium	36		0.25	0.13	mg/L		11/09/16 09:35	11/14/16 15:07	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/14/16 15:07	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/14/16 15:07	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/14/16 15:07	5
Lithium	0.011		0.0050	0.0032	mg/L		11/09/16 09:35	11/14/16 15:07	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/14/16 15:07	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/14/16 15:07	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/14/16 15:07	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	540		5.0	3.4	mg/L			11/08/16 16:49	1
Chloride	230		40	12	mg/L			11/15/16 15:54	20
Fluoride	0.080	I	0.10	0.032	mg/L			11/17/16 12:00	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/15/16 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.03				SU			11/01/16 14:47	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-13

Date Collected: 11/02/16 07:58

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-10

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	26		2.0	0.84	mg/L		11/09/16 09:35	11/12/16 01:05	200
Calcium	860		10	5.0	mg/L		11/09/16 09:35	11/12/16 01:05	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/14/16 15:12	5
Arsenic	0.0020		0.0013	0.00046	mg/L		11/09/16 09:35	11/14/16 15:12	5
Barium	0.13		0.0025	0.00049	mg/L		11/09/16 09:35	11/14/16 15:12	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:12	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:12	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/14/16 15:12	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/14/16 15:12	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/14/16 15:12	5
Lithium	0.19		0.0050	0.0032	mg/L		11/09/16 09:35	11/14/16 15:12	5
Molybdenum	0.0066	I	0.015	0.00085	mg/L		11/09/16 09:35	11/14/16 15:12	5
Selenium	0.00044	I	0.0013	0.00024	mg/L		11/09/16 09:35	11/14/16 15:12	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/14/16 15:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:48	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11000		50	34	mg/L			11/09/16 17:36	1
Chloride	5400		240	72	mg/L			11/15/16 15:54	120
Fluoride	0.040	I	0.10	0.032	mg/L			11/17/16 12:13	1
Sulfate	31		5.0	1.4	mg/L			11/15/16 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.96				SU			11/02/16 07:58	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-14
Date Collected: 11/03/16 10:47
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-11
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	19		2.0	0.84	mg/L		11/09/16 09:35	11/12/16 01:14	200
Calcium	230		10	5.0	mg/L		11/09/16 09:35	11/12/16 01:14	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/14/16 15:16	5
Arsenic	0.0031		0.0013	0.00046	mg/L		11/09/16 09:35	11/14/16 15:16	5
Barium	0.057		0.0025	0.00049	mg/L		11/09/16 09:35	11/14/16 15:16	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:16	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:16	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/14/16 15:16	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/14/16 15:16	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/14/16 15:16	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		11/09/16 09:35	11/14/16 15:16	5
Molybdenum	0.014	I	0.015	0.00085	mg/L		11/09/16 09:35	11/14/16 15:16	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/14/16 15:16	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/14/16 15:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:49	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5500		250	170	mg/L			11/10/16 18:58	1
Chloride	2700		120	36	mg/L			11/15/16 15:54	60
Fluoride	0.040	I	0.10	0.032	mg/L			11/21/16 16:40	1
Sulfate	570		150	42	mg/L			11/15/16 16:00	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.65				SU			11/03/16 10:47	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: DUP-01

Date Collected: 11/01/16 13:37

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-12

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/14/16 15:21	5
Arsenic	0.00050	I	0.0013	0.00046	mg/L		11/09/16 09:35	11/14/16 15:21	5
Barium	0.015		0.0025	0.00049	mg/L		11/09/16 09:35	11/14/16 15:21	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:21	5
Boron	0.29		0.050	0.021	mg/L		11/09/16 09:35	11/14/16 15:21	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:21	5
Calcium	35		0.25	0.13	mg/L		11/09/16 09:35	11/14/16 15:21	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/14/16 15:21	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/14/16 15:21	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/14/16 15:21	5
Lithium	0.011		0.0050	0.0032	mg/L		11/09/16 09:35	11/14/16 15:21	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/14/16 15:21	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/14/16 15:21	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/14/16 15:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:51	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		5.0	3.4	mg/L			11/08/16 16:49	1
Chloride	230		20	6.0	mg/L			11/15/16 15:54	10
Fluoride	0.080	I	0.10	0.032	mg/L			11/17/16 12:02	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/15/16 12:25	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.03				SU			11/01/16 13:37	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: DUP-02

Date Collected: 11/02/16 06:58

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-13

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	18		2.0	0.84	mg/L		11/09/16 09:35	11/14/16 14:26	200
Calcium	860		10	5.0	mg/L		11/09/16 09:35	11/14/16 14:26	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/14/16 15:25	5
Arsenic	0.0018		0.0013	0.00046	mg/L		11/09/16 09:35	11/14/16 15:25	5
Barium	0.13		0.0025	0.00049	mg/L		11/09/16 09:35	11/14/16 15:25	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:25	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:25	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/14/16 15:25	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/14/16 15:25	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/14/16 15:25	5
Lithium	0.20		0.0050	0.0032	mg/L		11/09/16 09:35	11/14/16 15:25	5
Molybdenum	0.0069	I	0.015	0.00085	mg/L		11/09/16 09:35	11/14/16 15:25	5
Selenium	0.00030	I	0.0013	0.00024	mg/L		11/09/16 09:35	11/14/16 15:25	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/14/16 15:25	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:52	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10000		50	34	mg/L			11/09/16 17:36	1
Chloride	5100		240	72	mg/L			11/16/16 12:47	120
Fluoride	0.040	I	0.10	0.032	mg/L			11/17/16 12:19	1
Sulfate	26		5.0	1.4	mg/L			11/15/16 14:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.96				SU			11/02/16 06:58	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: EB-01
Date Collected: 11/02/16 13:55
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-14
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/11/16 22:23	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		11/09/16 09:35	11/11/16 22:23	5
Barium	0.00049	U	0.0025	0.00049	mg/L		11/09/16 09:35	11/11/16 22:23	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:23	5
Boron	0.021	U	0.050	0.021	mg/L		11/09/16 09:35	11/11/16 22:23	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:23	5
Calcium	0.13	U	0.25	0.13	mg/L		11/09/16 09:35	11/11/16 22:23	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/11/16 22:23	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/11/16 22:23	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/11/16 22:23	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		11/09/16 09:35	11/11/16 22:23	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/11/16 22:23	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/11/16 22:23	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/11/16 22:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	20		5.0	3.4	mg/L			11/09/16 17:36	1
Chloride	0.60	U	2.0	0.60	mg/L			11/15/16 15:43	1
Fluoride	0.032	U	0.10	0.032	mg/L			11/17/16 12:24	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/15/16 14:00	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: FB-01
Date Collected: 11/02/16 12:45
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-15
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/11/16 22:28	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		11/09/16 09:35	11/11/16 22:28	5
Barium	0.00049	U	0.0025	0.00049	mg/L		11/09/16 09:35	11/11/16 22:28	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:28	5
Boron	0.021	U	0.050	0.021	mg/L		11/09/16 09:35	11/11/16 22:28	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:28	5
Calcium	0.13	U	0.25	0.13	mg/L		11/09/16 09:35	11/11/16 22:28	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/11/16 22:28	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/11/16 22:28	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/11/16 22:28	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		11/09/16 09:35	11/11/16 22:28	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/11/16 22:28	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/11/16 22:28	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/11/16 22:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:54	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	22		5.0	3.4	mg/L			11/09/16 17:36	1
Chloride	0.60	U	2.0	0.60	mg/L			11/15/16 15:43	1
Fluoride	0.032	U	0.10	0.032	mg/L			11/17/16 12:28	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/15/16 14:00	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: EB-02
Date Collected: 11/03/16 11:02
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-16
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/11/16 22:32	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		11/09/16 09:35	11/11/16 22:32	5
Barium	0.00049	U	0.0025	0.00049	mg/L		11/09/16 09:35	11/11/16 22:32	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:32	5
Boron	0.021	U	0.050	0.021	mg/L		11/09/16 09:35	11/11/16 22:32	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:32	5
Calcium	0.13	U	0.25	0.13	mg/L		11/09/16 09:35	11/11/16 22:32	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/11/16 22:32	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/11/16 22:32	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/11/16 22:32	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		11/09/16 09:35	11/11/16 22:32	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/11/16 22:32	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/11/16 22:32	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/11/16 22:32	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 13:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			11/10/16 18:58	1
Chloride	0.60	U	2.0	0.60	mg/L			11/15/16 15:43	1
Fluoride	0.032	U	0.10	0.032	mg/L			11/21/16 16:29	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/15/16 14:00	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: FB-02
Date Collected: 11/03/16 09:40
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-17
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/11/16 22:37	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		11/09/16 09:35	11/11/16 22:37	5
Barium	0.00049	U	0.0025	0.00049	mg/L		11/09/16 09:35	11/11/16 22:37	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:37	5
Boron	0.021	U	0.050	0.021	mg/L		11/09/16 09:35	11/11/16 22:37	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/11/16 22:37	5
Calcium	0.13	U	0.25	0.13	mg/L		11/09/16 09:35	11/11/16 22:37	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/11/16 22:37	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/11/16 22:37	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/11/16 22:37	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		11/09/16 09:35	11/11/16 22:37	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/11/16 22:37	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/11/16 22:37	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/11/16 22:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 13:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			11/10/16 18:58	1
Chloride	0.60	U	2.0	0.60	mg/L			11/15/16 15:43	1
Fluoride	0.032	U	0.10	0.032	mg/L			11/21/16 16:32	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/15/16 14:00	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: DUP-03

Lab Sample ID: 400-129627-18

Date Collected: 11/03/16 06:48

Matrix: Water

Date Received: 11/03/16 13:50

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.2		0.50	0.21	mg/L		11/09/16 09:35	11/14/16 14:31	50
Calcium	150		2.5	1.3	mg/L		11/09/16 09:35	11/14/16 14:31	50

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0014	I	0.0025	0.0010	mg/L		11/09/16 09:35	11/14/16 15:30	5
Arsenic	0.028		0.0013	0.00046	mg/L		11/09/16 09:35	11/14/16 15:30	5
Barium	0.13		0.0025	0.00049	mg/L		11/09/16 09:35	11/14/16 15:30	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:30	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 15:30	5
Chromium	0.0037		0.0025	0.0011	mg/L		11/09/16 09:35	11/14/16 15:30	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/14/16 15:30	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/14/16 15:30	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		11/09/16 09:35	11/14/16 15:30	5
Molybdenum	0.014	I	0.015	0.00085	mg/L		11/09/16 09:35	11/14/16 15:30	5
Selenium	0.00042	I	0.0013	0.00024	mg/L		11/09/16 09:35	11/14/16 15:30	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/14/16 15:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 13:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4800		250	170	mg/L			11/10/16 18:58	1
Chloride	2800		200	60	mg/L			11/15/16 16:02	100
Fluoride	0.032	U	0.10	0.032	mg/L			11/21/16 16:27	1
Sulfate	330		100	28	mg/L			11/15/16 16:00	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.54				SU			11/03/16 06:48	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-2
Date Collected: 11/01/16 09:19
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/11/16 22:41	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:24	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330199	11/08/16 16:49	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	331137	11/15/16 12:15	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 11:52	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 12:22	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/01/16 09:19	BWS	TAL PEN

Client Sample ID: MW-3
Date Collected: 11/01/16 13:29
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/11/16 22:46	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330199	11/08/16 16:49	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	331137	11/15/16 12:15	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 11:58	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 12:22	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/01/16 13:29	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 11/02/16 12:33
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/11/16 23:35	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	100	330894	11/11/16 23:40	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330462	11/09/16 17:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		80	331205	11/15/16 15:47	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 12:05	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	331206	11/15/16 14:06	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/02/16 12:33	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-7

Lab Sample ID: 400-129627-4

Date Collected: 11/02/16 13:42

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/11/16 23:44	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	330894	11/11/16 23:49	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:32	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330462	11/09/16 17:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		40	331205	11/15/16 15:47	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 12:08	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	331206	11/15/16 14:06	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/02/16 13:42	BWS	TAL PEN

Client Sample ID: MW-8

Lab Sample ID: 400-129627-5

Date Collected: 11/02/16 09:27

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/11/16 23:53	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	330894	11/11/16 23:58	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:33	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330462	11/09/16 17:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		80	331205	11/15/16 15:47	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 12:11	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	331206	11/15/16 14:44	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/02/16 09:27	BWS	TAL PEN

Client Sample ID: MW-9

Lab Sample ID: 400-129627-6

Date Collected: 11/03/16 10:59

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/12/16 00:02	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	330894	11/12/16 00:07	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:43	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330590	11/10/16 18:58	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		60	331205	11/15/16 15:47	SEH	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-9

Date Collected: 11/03/16 10:59

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-6

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	332024	11/21/16 15:58	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	331206	11/15/16 14:06	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/03/16 10:59	BWS	TAL PEN

Client Sample ID: MW-10

Date Collected: 11/03/16 09:27

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/12/16 00:11	AJR	TAL PEN
Total Recoverable	Prep	3005A	DL		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	330894	11/12/16 00:38	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:45	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330590	11/10/16 18:58	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		70	331353	11/16/16 12:47	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	332024	11/21/16 16:21	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	331206	11/15/16 14:44	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/03/16 09:27	BWS	TAL PEN

Client Sample ID: MW-11

Date Collected: 11/03/16 07:48

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	100	331023	11/14/16 14:17	AJR	TAL PEN
Total Recoverable	Prep	3005A	RA		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	331023	11/14/16 15:03	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:46	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330590	11/10/16 18:58	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	331205	11/15/16 15:54	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	332024	11/21/16 16:24	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	331206	11/15/16 14:44	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/03/16 07:48	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-12

Date Collected: 11/01/16 14:47

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	RA		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	331023	11/14/16 15:07	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:47	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330199	11/08/16 16:49	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		20	331205	11/15/16 15:54	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 12:00	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 12:25	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/01/16 14:47	BWS	TAL PEN

Client Sample ID: MW-13

Date Collected: 11/02/16 07:58

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		200	330894	11/12/16 01:05	AJR	TAL PEN
Total Recoverable	Prep	3005A	RA		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	331023	11/14/16 15:12	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330462	11/09/16 17:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	331205	11/15/16 15:54	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 12:13	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 12:25	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/02/16 07:58	BWS	TAL PEN

Client Sample ID: MW-14

Date Collected: 11/03/16 10:47

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		200	330894	11/12/16 01:14	AJR	TAL PEN
Total Recoverable	Prep	3005A	RA		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	331023	11/14/16 15:16	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:49	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330590	11/10/16 18:58	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		60	331205	11/15/16 15:54	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	332024	11/21/16 16:40	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	331206	11/15/16 16:00	SEH	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: MW-14

Lab Sample ID: 400-129627-11

Date Collected: 11/03/16 10:47

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	333685	11/03/16 10:47	BWS	TAL PEN

Client Sample ID: DUP-01

Lab Sample ID: 400-129627-12

Date Collected: 11/01/16 13:37

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	RA		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	331023	11/14/16 15:21	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:51	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330199	11/08/16 16:49	JLB	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		10	331205	11/15/16 15:54	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 12:02	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 12:25	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/01/16 13:37	BWS	TAL PEN

Client Sample ID: DUP-02

Lab Sample ID: 400-129627-13

Date Collected: 11/02/16 06:58

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	331023	11/14/16 14:26	AJR	TAL PEN
Total Recoverable	Prep	3005A	RA		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	331023	11/14/16 15:25	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:52	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330462	11/09/16 17:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		120	331353	11/16/16 12:47	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 12:19	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 14:00	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/02/16 06:58	BWS	TAL PEN

Client Sample ID: EB-01

Lab Sample ID: 400-129627-14

Date Collected: 11/02/16 13:55

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/11/16 22:23	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: EB-01

Lab Sample ID: 400-129627-14

Date Collected: 11/02/16 13:55

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	330748	11/11/16 12:53	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330462	11/09/16 17:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	331205	11/15/16 15:43	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 12:24	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 14:00	SEH	TAL PEN

Client Sample ID: FB-01

Lab Sample ID: 400-129627-15

Date Collected: 11/02/16 12:45

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/11/16 22:28	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 12:54	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330462	11/09/16 17:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	331205	11/15/16 15:43	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	331506	11/17/16 12:28	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 14:00	SEH	TAL PEN

Client Sample ID: EB-02

Lab Sample ID: 400-129627-16

Date Collected: 11/03/16 11:02

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/11/16 22:32	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 13:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330590	11/10/16 18:58	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	331205	11/15/16 15:43	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	332024	11/21/16 16:29	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 14:00	SEH	TAL PEN

Client Sample ID: FB-02

Lab Sample ID: 400-129627-17

Date Collected: 11/03/16 09:40

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	330894	11/11/16 22:37	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Client Sample ID: FB-02

Lab Sample ID: 400-129627-17

Date Collected: 11/03/16 09:40

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	330748	11/11/16 13:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330590	11/10/16 18:58	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	331205	11/15/16 15:43	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	332024	11/21/16 16:32	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	331206	11/15/16 14:00	SEH	TAL PEN

Client Sample ID: DUP-03

Lab Sample ID: 400-129627-18

Date Collected: 11/03/16 06:48

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	50	331023	11/14/16 14:31	AJR	TAL PEN
Total Recoverable	Prep	3005A	RA		330359	11/09/16 09:35	RJB	TAL PEN
Total Recoverable	Analysis	6020	RA	5	331023	11/14/16 15:30	AJR	TAL PEN
Total/NA	Prep	7470A			330160	11/08/16 09:13	JAP	TAL PEN
Total/NA	Analysis	7470A		1	330748	11/11/16 13:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	330590	11/10/16 18:58	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	331205	11/15/16 16:02	SEH	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	332024	11/21/16 16:27	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	331206	11/15/16 16:00	SEH	TAL PEN
Total/NA	Analysis	Field Sampling		1	333685	11/03/16 06:48	BWS	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Metals

Prep Batch: 330160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total/NA	Water	7470A	
400-129627-2	MW-3	Total/NA	Water	7470A	
400-129627-3	MW-6	Total/NA	Water	7470A	
400-129627-4	MW-7	Total/NA	Water	7470A	
400-129627-5	MW-8	Total/NA	Water	7470A	
400-129627-6	MW-9	Total/NA	Water	7470A	
400-129627-7	MW-10	Total/NA	Water	7470A	
400-129627-8	MW-11	Total/NA	Water	7470A	
400-129627-9	MW-12	Total/NA	Water	7470A	
400-129627-10	MW-13	Total/NA	Water	7470A	
400-129627-11	MW-14	Total/NA	Water	7470A	
400-129627-12	DUP-01	Total/NA	Water	7470A	
400-129627-13	DUP-02	Total/NA	Water	7470A	
400-129627-14	EB-01	Total/NA	Water	7470A	
400-129627-15	FB-01	Total/NA	Water	7470A	
400-129627-16	EB-02	Total/NA	Water	7470A	
400-129627-17	FB-02	Total/NA	Water	7470A	
400-129627-18	DUP-03	Total/NA	Water	7470A	
MB 400-330160/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-330160/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-129627-1 MS	MW-2	Total/NA	Water	7470A	
400-129627-1 MSD	MW-2	Total/NA	Water	7470A	

Prep Batch: 330359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total Recoverable	Water	3005A	
400-129627-2	MW-3	Total Recoverable	Water	3005A	
400-129627-3	MW-6	Total Recoverable	Water	3005A	
400-129627-3 - DL	MW-6	Total Recoverable	Water	3005A	
400-129627-4	MW-7	Total Recoverable	Water	3005A	
400-129627-4 - DL	MW-7	Total Recoverable	Water	3005A	
400-129627-5	MW-8	Total Recoverable	Water	3005A	
400-129627-5 - DL	MW-8	Total Recoverable	Water	3005A	
400-129627-6 - DL	MW-9	Total Recoverable	Water	3005A	
400-129627-6	MW-9	Total Recoverable	Water	3005A	
400-129627-7 - DL	MW-10	Total Recoverable	Water	3005A	
400-129627-7	MW-10	Total Recoverable	Water	3005A	
400-129627-8 - DL	MW-11	Total Recoverable	Water	3005A	
400-129627-8 - RA	MW-11	Total Recoverable	Water	3005A	
400-129627-9 - RA	MW-12	Total Recoverable	Water	3005A	
400-129627-10 - RA	MW-13	Total Recoverable	Water	3005A	
400-129627-10	MW-13	Total Recoverable	Water	3005A	
400-129627-11 - RA	MW-14	Total Recoverable	Water	3005A	
400-129627-11	MW-14	Total Recoverable	Water	3005A	
400-129627-12 - RA	DUP-01	Total Recoverable	Water	3005A	
400-129627-13 - RA	DUP-02	Total Recoverable	Water	3005A	
400-129627-13 - DL	DUP-02	Total Recoverable	Water	3005A	
400-129627-14	EB-01	Total Recoverable	Water	3005A	
400-129627-15	FB-01	Total Recoverable	Water	3005A	
400-129627-16	EB-02	Total Recoverable	Water	3005A	
400-129627-17	FB-02	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Metals (Continued)

Prep Batch: 330359 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-18 - RA	DUP-03	Total Recoverable	Water	3005A	
400-129627-18 - DL	DUP-03	Total Recoverable	Water	3005A	
MB 400-330359/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-330359/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-129627-2 MS	MW-3	Total Recoverable	Water	3005A	
400-129627-2 MSD	MW-3	Total Recoverable	Water	3005A	

Analysis Batch: 330748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total/NA	Water	7470A	330160
400-129627-2	MW-3	Total/NA	Water	7470A	330160
400-129627-3	MW-6	Total/NA	Water	7470A	330160
400-129627-4	MW-7	Total/NA	Water	7470A	330160
400-129627-5	MW-8	Total/NA	Water	7470A	330160
400-129627-6	MW-9	Total/NA	Water	7470A	330160
400-129627-7	MW-10	Total/NA	Water	7470A	330160
400-129627-8	MW-11	Total/NA	Water	7470A	330160
400-129627-9	MW-12	Total/NA	Water	7470A	330160
400-129627-10	MW-13	Total/NA	Water	7470A	330160
400-129627-11	MW-14	Total/NA	Water	7470A	330160
400-129627-12	DUP-01	Total/NA	Water	7470A	330160
400-129627-13	DUP-02	Total/NA	Water	7470A	330160
400-129627-14	EB-01	Total/NA	Water	7470A	330160
400-129627-15	FB-01	Total/NA	Water	7470A	330160
400-129627-16	EB-02	Total/NA	Water	7470A	330160
400-129627-17	FB-02	Total/NA	Water	7470A	330160
400-129627-18	DUP-03	Total/NA	Water	7470A	330160
MB 400-330160/14-A	Method Blank	Total/NA	Water	7470A	330160
LCS 400-330160/15-A	Lab Control Sample	Total/NA	Water	7470A	330160
400-129627-1 MS	MW-2	Total/NA	Water	7470A	330160
400-129627-1 MSD	MW-2	Total/NA	Water	7470A	330160

Analysis Batch: 330894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total Recoverable	Water	6020	330359
400-129627-2	MW-3	Total Recoverable	Water	6020	330359
400-129627-3	MW-6	Total Recoverable	Water	6020	330359
400-129627-3 - DL	MW-6	Total Recoverable	Water	6020	330359
400-129627-4	MW-7	Total Recoverable	Water	6020	330359
400-129627-4 - DL	MW-7	Total Recoverable	Water	6020	330359
400-129627-5	MW-8	Total Recoverable	Water	6020	330359
400-129627-5 - DL	MW-8	Total Recoverable	Water	6020	330359
400-129627-6	MW-9	Total Recoverable	Water	6020	330359
400-129627-6 - DL	MW-9	Total Recoverable	Water	6020	330359
400-129627-7	MW-10	Total Recoverable	Water	6020	330359
400-129627-7 - DL	MW-10	Total Recoverable	Water	6020	330359
400-129627-10	MW-13	Total Recoverable	Water	6020	330359
400-129627-11	MW-14	Total Recoverable	Water	6020	330359
400-129627-14	EB-01	Total Recoverable	Water	6020	330359
400-129627-15	FB-01	Total Recoverable	Water	6020	330359
400-129627-16	EB-02	Total Recoverable	Water	6020	330359

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Metals (Continued)

Analysis Batch: 330894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-17	FB-02	Total Recoverable	Water	6020	330359
LCS 400-330359/2-A	Lab Control Sample	Total Recoverable	Water	6020	330359
400-129627-2 MS	MW-3	Total Recoverable	Water	6020	330359
400-129627-2 MSD	MW-3	Total Recoverable	Water	6020	330359

Analysis Batch: 331023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-8 - DL	MW-11	Total Recoverable	Water	6020	330359
400-129627-8 - RA	MW-11	Total Recoverable	Water	6020	330359
400-129627-9 - RA	MW-12	Total Recoverable	Water	6020	330359
400-129627-10 - RA	MW-13	Total Recoverable	Water	6020	330359
400-129627-11 - RA	MW-14	Total Recoverable	Water	6020	330359
400-129627-12 - RA	DUP-01	Total Recoverable	Water	6020	330359
400-129627-13 - DL	DUP-02	Total Recoverable	Water	6020	330359
400-129627-13 - RA	DUP-02	Total Recoverable	Water	6020	330359
400-129627-18 - DL	DUP-03	Total Recoverable	Water	6020	330359
400-129627-18 - RA	DUP-03	Total Recoverable	Water	6020	330359
MB 400-330359/1-A ^5	Method Blank	Total Recoverable	Water	6020	330359

General Chemistry

Analysis Batch: 330199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total/NA	Water	SM 2540C	
400-129627-2	MW-3	Total/NA	Water	SM 2540C	
400-129627-9	MW-12	Total/NA	Water	SM 2540C	
400-129627-12	DUP-01	Total/NA	Water	SM 2540C	
MB 400-330199/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-330199/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-129503-D-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 330462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-3	MW-6	Total/NA	Water	SM 2540C	
400-129627-4	MW-7	Total/NA	Water	SM 2540C	
400-129627-5	MW-8	Total/NA	Water	SM 2540C	
400-129627-10	MW-13	Total/NA	Water	SM 2540C	
400-129627-13	DUP-02	Total/NA	Water	SM 2540C	
400-129627-14	EB-01	Total/NA	Water	SM 2540C	
400-129627-15	FB-01	Total/NA	Water	SM 2540C	
MB 400-330462/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-330462/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-129606-D-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 330590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-6	MW-9	Total/NA	Water	SM 2540C	
400-129627-7	MW-10	Total/NA	Water	SM 2540C	
400-129627-8	MW-11	Total/NA	Water	SM 2540C	
400-129627-11	MW-14	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

General Chemistry (Continued)

Analysis Batch: 330590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-16	EB-02	Total/NA	Water	SM 2540C	
400-129627-17	FB-02	Total/NA	Water	SM 2540C	
400-129627-18	DUP-03	Total/NA	Water	SM 2540C	
MB 400-330590/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-330590/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-129627-16 DU	EB-02	Total/NA	Water	SM 2540C	

Analysis Batch: 331137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-129627-2	MW-3	Total/NA	Water	SM 4500 Cl- E	
MB 400-331137/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-331137/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-331137/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-129772-F-9 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-129772-F-9 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 331205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-3	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-129627-4	MW-7	Total/NA	Water	SM 4500 Cl- E	
400-129627-5	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-129627-6	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-129627-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
400-129627-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
400-129627-10	MW-13	Total/NA	Water	SM 4500 Cl- E	
400-129627-11	MW-14	Total/NA	Water	SM 4500 Cl- E	
400-129627-12	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-129627-14	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-129627-15	FB-01	Total/NA	Water	SM 4500 Cl- E	
400-129627-16	EB-02	Total/NA	Water	SM 4500 Cl- E	
400-129627-17	FB-02	Total/NA	Water	SM 4500 Cl- E	
400-129627-18	DUP-03	Total/NA	Water	SM 4500 Cl- E	
MB 400-331205/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-331205/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCSD 400-331205/4	Lab Control Sample Dup	Total/NA	Water	SM 4500 Cl- E	
MRL 400-331205/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 331206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-129627-2	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-129627-3	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-129627-4	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-129627-5	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-129627-6	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-129627-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-129627-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
400-129627-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
400-129627-10	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-129627-11	MW-14	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

General Chemistry (Continued)

Analysis Batch: 331206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-12	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-129627-13	DUP-02	Total/NA	Water	SM 4500 SO4 E	
400-129627-14	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-129627-15	FB-01	Total/NA	Water	SM 4500 SO4 E	
400-129627-16	EB-02	Total/NA	Water	SM 4500 SO4 E	
400-129627-17	FB-02	Total/NA	Water	SM 4500 SO4 E	
400-129627-18	DUP-03	Total/NA	Water	SM 4500 SO4 E	
MB 400-331206/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-331206/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS D 400-331206/4	Lab Control Sample Dup	Total/NA	Water	SM 4500 SO4 E	
MRL 400-331206/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 331353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-129627-13	DUP-02	Total/NA	Water	SM 4500 Cl- E	
MB 400-331353/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-331353/6	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-331353/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-129641-A-9 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-129641-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 331506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total/NA	Water	SM 4500 F C	
400-129627-2	MW-3	Total/NA	Water	SM 4500 F C	
400-129627-3	MW-6	Total/NA	Water	SM 4500 F C	
400-129627-4	MW-7	Total/NA	Water	SM 4500 F C	
400-129627-5	MW-8	Total/NA	Water	SM 4500 F C	
400-129627-9	MW-12	Total/NA	Water	SM 4500 F C	
400-129627-10	MW-13	Total/NA	Water	SM 4500 F C	
400-129627-12	DUP-01	Total/NA	Water	SM 4500 F C	
400-129627-13	DUP-02	Total/NA	Water	SM 4500 F C	
400-129627-14	EB-01	Total/NA	Water	SM 4500 F C	
400-129627-15	FB-01	Total/NA	Water	SM 4500 F C	
MB 400-331506/11	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-331506/10	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-129627-A-1 MS	400-129627-A-1 MS	Total/NA	Water	SM 4500 F C	
400-129627-A-1 MSD	400-129627-A-1 MSD	Total/NA	Water	SM 4500 F C	
400-129627-13 DU	DUP-02	Total/NA	Water	SM 4500 F C	

Analysis Batch: 332024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-6	MW-9	Total/NA	Water	SM 4500 F C	
400-129627-7	MW-10	Total/NA	Water	SM 4500 F C	
400-129627-8	MW-11	Total/NA	Water	SM 4500 F C	
400-129627-11	MW-14	Total/NA	Water	SM 4500 F C	
400-129627-16	EB-02	Total/NA	Water	SM 4500 F C	
400-129627-17	FB-02	Total/NA	Water	SM 4500 F C	
400-129627-18	DUP-03	Total/NA	Water	SM 4500 F C	
MB 400-332024/3	Method Blank	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

General Chemistry (Continued)

Analysis Batch: 332024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-332024/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-129627-6 MS	MW-9	Total/NA	Water	SM 4500 F C	
400-129627-6 MSD	MW-9	Total/NA	Water	SM 4500 F C	
400-129627-11 DU	MW-14	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 333685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total/NA	Water	Field Sampling	
400-129627-2	MW-3	Total/NA	Water	Field Sampling	
400-129627-3	MW-6	Total/NA	Water	Field Sampling	
400-129627-4	MW-7	Total/NA	Water	Field Sampling	
400-129627-5	MW-8	Total/NA	Water	Field Sampling	
400-129627-6	MW-9	Total/NA	Water	Field Sampling	
400-129627-7	MW-10	Total/NA	Water	Field Sampling	
400-129627-8	MW-11	Total/NA	Water	Field Sampling	
400-129627-9	MW-12	Total/NA	Water	Field Sampling	
400-129627-10	MW-13	Total/NA	Water	Field Sampling	
400-129627-11	MW-14	Total/NA	Water	Field Sampling	
400-129627-12	DUP-01	Total/NA	Water	Field Sampling	
400-129627-13	DUP-02	Total/NA	Water	Field Sampling	
400-129627-18	DUP-03	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-330359/1-A ^5
Matrix: Water
Analysis Batch: 331023

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 330359

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		11/09/16 09:35	11/14/16 13:50	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		11/09/16 09:35	11/14/16 13:50	5
Barium	0.00049	U	0.0025	0.00049	mg/L		11/09/16 09:35	11/14/16 13:50	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 13:50	5
Boron	0.021	U	0.050	0.021	mg/L		11/09/16 09:35	11/14/16 13:50	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		11/09/16 09:35	11/14/16 13:50	5
Calcium	0.13	U	0.25	0.13	mg/L		11/09/16 09:35	11/14/16 13:50	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		11/09/16 09:35	11/14/16 13:50	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		11/09/16 09:35	11/14/16 13:50	5
Lead	0.00035	U	0.0013	0.00035	mg/L		11/09/16 09:35	11/14/16 13:50	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		11/09/16 09:35	11/14/16 13:50	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		11/09/16 09:35	11/14/16 13:50	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		11/09/16 09:35	11/14/16 13:50	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		11/09/16 09:35	11/14/16 13:50	5

Lab Sample ID: LCS 400-330359/2-A
Matrix: Water
Analysis Batch: 330894

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 330359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0529		mg/L		106	80 - 120
Arsenic	0.0500	0.0539		mg/L		108	80 - 120
Barium	0.0500	0.0516		mg/L		103	80 - 120
Beryllium	0.0500	0.0483		mg/L		97	80 - 120
Boron	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Calcium	5.00	5.18		mg/L		104	80 - 120
Chromium	0.0500	0.0517		mg/L		103	80 - 120
Cobalt	0.0500	0.0528		mg/L		106	80 - 120
Lead	0.0500	0.0544		mg/L		109	80 - 120
Lithium	0.0500	0.0542		mg/L		108	80 - 120
Molybdenum	0.0500	0.0529		mg/L		106	80 - 120
Selenium	0.0500	0.0528		mg/L		106	80 - 120
Thallium	0.0100	0.0107		mg/L		107	80 - 120

Lab Sample ID: 400-129627-2 MS
Matrix: Water
Analysis Batch: 330894

Client Sample ID: MW-3
Prep Type: Total Recoverable
Prep Batch: 330359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0010	U	0.0500	0.0550		mg/L		110	75 - 125
Arsenic	0.00046	U	0.0500	0.0555		mg/L		111	75 - 125
Barium	0.018		0.0500	0.0708		mg/L		106	75 - 125
Beryllium	0.00034	U	0.0500	0.0495		mg/L		99	75 - 125
Boron	0.021	U	0.100	0.0870		mg/L		87	75 - 125
Cadmium	0.00034	U	0.0500	0.0528		mg/L		106	75 - 125
Calcium	1.9		5.00	7.11		mg/L		105	75 - 125
Chromium	0.0026		0.0500	0.0559		mg/L		107	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

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

Lab Sample ID: 400-129627-2 MS
Matrix: Water
Analysis Batch: 330894

Client Sample ID: MW-3
Prep Type: Total Recoverable
Prep Batch: 330359

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.00040	U	0.0500	0.0540		mg/L		108	75 - 125
Lead	0.00035	U	0.0500	0.0543		mg/L		109	75 - 125
Lithium	0.013		0.0500	0.0698		mg/L		114	75 - 125
Molybdenum	0.00085	U	0.0500	0.0540		mg/L		108	75 - 125
Selenium	0.00024	U	0.0500	0.0546		mg/L		109	75 - 125
Thallium	0.000085	U	0.0100	0.0108		mg/L		108	75 - 125

Lab Sample ID: 400-129627-2 MSD
Matrix: Water
Analysis Batch: 330894

Client Sample ID: MW-3
Prep Type: Total Recoverable
Prep Batch: 330359

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	0.0010	U	0.0500	0.0516		mg/L		103	75 - 125	6	20
Arsenic	0.00046	U	0.0500	0.0544		mg/L		109	75 - 125	2	20
Barium	0.018		0.0500	0.0712		mg/L		107	75 - 125	1	20
Beryllium	0.00034	U	0.0500	0.0493		mg/L		99	75 - 125	0	20
Boron	0.021	U	0.100	0.0832		mg/L		83	75 - 125	4	20
Cadmium	0.00034	U	0.0500	0.0535		mg/L		107	75 - 125	1	20
Calcium	1.9		5.00	7.03		mg/L		103	75 - 125	1	20
Chromium	0.0026		0.0500	0.0552		mg/L		105	75 - 125	1	20
Cobalt	0.00040	U	0.0500	0.0538		mg/L		108	75 - 125	0	20
Lead	0.00035	U	0.0500	0.0539		mg/L		108	75 - 125	1	20
Lithium	0.013		0.0500	0.0696		mg/L		114	75 - 125	0	20
Molybdenum	0.00085	U	0.0500	0.0533		mg/L		107	75 - 125	1	20
Selenium	0.00024	U	0.0500	0.0525		mg/L		105	75 - 125	4	20
Thallium	0.000085	U	0.0100	0.0107		mg/L		107	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-330160/14-A
Matrix: Water
Analysis Batch: 330748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 330160

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		11/08/16 09:13	11/11/16 12:21	1

Lab Sample ID: LCS 400-330160/15-A
Matrix: Water
Analysis Batch: 330748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 330160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.000953		mg/L		95	80 - 120

Lab Sample ID: 400-129627-1 MS
Matrix: Water
Analysis Batch: 330748

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 330160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.000070	U	0.00201	0.00189		mg/L		94	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Lab Sample ID: 400-129627-1 MSD
Matrix: Water
Analysis Batch: 330748

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 330160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.000070	U	0.00201	0.00187		mg/L		93	80 - 120	1	20

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

Lab Sample ID: MB 400-330199/1
Matrix: Water
Analysis Batch: 330199

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			11/08/16 16:49	1

Lab Sample ID: LCS 400-330199/2
Matrix: Water
Analysis Batch: 330199

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	282		mg/L		96	78 - 122

Lab Sample ID: 400-129503-D-1 DU
Matrix: Water
Analysis Batch: 330199

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	92		92.0		mg/L		0	5

Lab Sample ID: MB 400-330462/1
Matrix: Water
Analysis Batch: 330462

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			11/09/16 17:36	1

Lab Sample ID: LCS 400-330462/2
Matrix: Water
Analysis Batch: 330462

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: 400-129606-D-2 DU
Matrix: Water
Analysis Batch: 330462

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	150		154		mg/L		3	5

Lab Sample ID: MB 400-330590/1
Matrix: Water
Analysis Batch: 330590

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			11/10/16 18:58	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Lab Sample ID: LCS 400-330590/2
Matrix: Water
Analysis Batch: 330590

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	272		mg/L		93	78 - 122

Lab Sample ID: 400-129627-16 DU
Matrix: Water
Analysis Batch: 330590

Client Sample ID: EB-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3.4	U	3.4	U	mg/L		NC	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-331137/6
Matrix: Water
Analysis Batch: 331137

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			11/15/16 11:48	1

Lab Sample ID: LCS 400-331137/7
Matrix: Water
Analysis Batch: 331137

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	32.7		mg/L		109	90 - 110

Lab Sample ID: MRL 400-331137/3
Matrix: Water
Analysis Batch: 331137

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	I	mg/L		90	50 - 150

Lab Sample ID: 400-129772-F-9 MS
Matrix: Water
Analysis Batch: 331137

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	2.2		10.0	13.9		mg/L		117	73 - 120

Lab Sample ID: 400-129772-F-9 MSD
Matrix: Water
Analysis Batch: 331137

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	2.2		10.0	13.8		mg/L		116	73 - 120	1	8

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

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

Lab Sample ID: MB 400-331205/6
Matrix: Water
Analysis Batch: 331205

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			11/15/16 13:45	1

Lab Sample ID: LCS 400-331205/7
Matrix: Water
Analysis Batch: 331205

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: LCSD 400-331205/4
Matrix: Water
Analysis Batch: 331205

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	30.0	32.7		mg/L		109	90 - 110	0	8

Lab Sample ID: MRL 400-331205/3
Matrix: Water
Analysis Batch: 331205

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	1.67	I	mg/L		84	50 - 150

Lab Sample ID: MB 400-331353/5
Matrix: Water
Analysis Batch: 331353

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			11/16/16 09:42	1

Lab Sample ID: LCS 400-331353/6
Matrix: Water
Analysis Batch: 331353

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	32.9		mg/L		110	90 - 110

Lab Sample ID: MRL 400-331353/3
Matrix: Water
Analysis Batch: 331353

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	5.19		mg/L		260	50 - 150

Lab Sample ID: 400-129641-A-9 MS
Matrix: Water
Analysis Batch: 331353

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	5.0		10.0	16.7		mg/L		117	73 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Lab Sample ID: 400-129641-A-9 MSD
Matrix: Water
Analysis Batch: 331353

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	5.0		10.0	16.5		mg/L		115	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-331506/11
Matrix: Water
Analysis Batch: 331506

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			11/17/16 11:35	1

Lab Sample ID: LCS 400-331506/10
Matrix: Water
Analysis Batch: 331506

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	3.95		mg/L		99	90 - 110

Lab Sample ID: 400-129627-A-1 MS
Matrix: Water
Analysis Batch: 331506

Client Sample ID: 400-129627-A-1 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.18		1.00	1.11		mg/L		93	75 - 125

Lab Sample ID: 400-129627-A-1 MSD
Matrix: Water
Analysis Batch: 331506

Client Sample ID: 400-129627-A-1 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.18		1.00	1.14		mg/L		96	75 - 125	3	4

Lab Sample ID: 400-129627-13 DU
Matrix: Water
Analysis Batch: 331506

Client Sample ID: DUP-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.040	I	0.0400	I	mg/L		0	4

Lab Sample ID: MB 400-332024/3
Matrix: Water
Analysis Batch: 332024

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			11/21/16 15:50	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-332024/4
Matrix: Water
Analysis Batch: 332024

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: 400-129627-6 MS
Matrix: Water
Analysis Batch: 332024

Client Sample ID: MW-9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.040	I	1.00	0.880		mg/L		84	75 - 125

Lab Sample ID: 400-129627-6 MSD
Matrix: Water
Analysis Batch: 332024

Client Sample ID: MW-9
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	I	1.00	0.860		mg/L		82	75 - 125	2	4

Lab Sample ID: 400-129627-11 DU
Matrix: Water
Analysis Batch: 332024

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.040	I	1.00	0.0400	I	mg/L				0	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-331206/6
Matrix: Water
Analysis Batch: 331206

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			11/15/16 11:50	1

Lab Sample ID: LCS 400-331206/7
Matrix: Water
Analysis Batch: 331206

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	14.4		mg/L		96	90 - 110

Lab Sample ID: LCSD 400-331206/4
Matrix: Water
Analysis Batch: 331206

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	15.0	14.5		mg/L		97	90 - 110	1	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

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

Lab Sample ID: MRL 400-331206/3
Matrix: Water
Analysis Batch: 331206

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	4.82	I	mg/L		96	50 - 150

- 1
- 2
- 3
- 4
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- 7
- 8
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- 10
- 11
- 12
- 13
- 14

Chain of Custody Record

Client Information		Sampler: Brett Searles		Lab PMT: Whitmore, Cheyenne R		Carrier Tracking No(s):		COC No: 400-53432-23565.1	
Client Contact: Kristi Mitchell		Phone: 850 380 3458		E-Mail: cheyenne.whitmore@testamericainc.com		Page: Page 1 of 2		Job #:	
Company: Gulf Power Company		Due Date Requested:		Analysis Requested		Total Number of Containers:		Preservation Codes:	
Address: BIN 731 One Energy Place		TAT Requested (days):		Field Sampling - Field Sampling Parameters		Mercury		A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchler H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Other:	
City: Pensacola		PO #: Purchase Order not required		9316_Ra226, 9320_Ra228, Ra226Ra228_GFP		6020 - Sp,As,Ba,Bi,Bb,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl,7470A -		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	
State, Zip: FL, 32520		WO #:		SM4500, Cl, E - Chloride, SM4500, SO4, F - Sulfate, 25400 -		9316_Ra226, 9320_Ra228, Ra226Ra228_GFP			
Phone: 850-444-6427(Tel)		Project #:		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)			
Email: krmitch@southernco.com		40006609		Matrix (Water, Seawater, Groundwater, Tissue, Air)		Field Filtered Sample (Yes or No)			
Project Name: CCR Smith Plant		SSOW #:		Sample Type (C=Comp, G=grab)		Sample Date		Sample Time	
Site:				Sample Date		Sample Time		Sample Date	
Sample Identification		Sample Identification		Sample Identification		Sample Identification		Sample Identification	
MW-2	11/11/16	0919	G	Water					
MW-3	11/11/16	1329	G	Water					
MW-6	11/21/16	1233	G	Water					
MW-7	11/21/16	1342	G	Water					
MW-8	11/21/16	0927	G	Water					
MW-9	11/31/16	1059	G	Water					
MW-10	11/31/16	0927	G	Water					
MW-11	11/31/16	0748	G	Water					
MW-12	11/11/16	1447	G	Water					
MW-13	11/21/16	0758	G	Water					
MW-14	11/21/16	1047	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		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: [Signature]		Date: 11/3/16		Date: 11/3/16		Date: 11/3/16	
Relinquished by: [Signature]		Date: 11/3/16		Date: 11/3/16		Date: 11/3/16		Date: 11/3/16	
Relinquished by: [Signature]		Date: 11/3/16		Date: 11/3/16		Date: 11/3/16		Date: 11/3/16	
Relinquished by: [Signature]		Date: 11/3/16		Date: 11/3/16		Date: 11/3/16		Date: 11/3/16	
Custody Seals Intact: Yes		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.0, 0.2, 0.0, 0.0, 0.0		Company: GP		Company: GP	

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: Kristi Mitchell Company: Gulf Power Company Address: BIN 731 One Energy Place City: Pensacola State, Zip: FL, 32520 Phone: 850-444-6427(Tel) Email: krmitch@southernco.com Project Name: CCR Smith Plant Site:		Samples: Brett Sikes Phone: 850 380 3458 Lab P/IC: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-53432-23565.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 40006609 SSOW#:		Analysis Requested Field Sampling - Field Sampling Parameters Mercury 6020 - Sb,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl,7470A - Total Dissolved Solids, 4500 F, C - Fluoride SM4500 Cl, E - Chloride, SM4500 SO4, E - Sulfate, 2540C - 9315_Ra226, 9320_Ra228, Ra226Ra228_GFP Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)	
Sample Identification Sample ID: FB-01 EB-01 DUP-01 FB-02 EB-02 DUP-02 DUP-03		Sample Date: 11/21/16 11/21/16 11/11/16 11/3/16 11/10/16 11/2/16 11/3/16 Sample Time: 1245 1355 1357 1050 1102 0658 0648 Sample Type (C=Comp, G=grab): G G G G G G G Matrix (W=Water, S=Soil, O=Other, T=Tissue, A=Air): 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 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	
Empty Kit Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by: Relinquished by:		Method of Shipment: Date/Time: 11/3/16 1350 Date/Time: Date/Time: Date/Time:	
Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>		Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-129627-1

Login Number: 129627

List Number: 1

Creator: Harris, John M

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, 0.0°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 <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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-1

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	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	12-31-16
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	06-30-17
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

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Pensacola, FL 32514

Tel: (850)474-1001

TestAmerica Job ID: 400-129627-2

Client Project/Site: CCR Smith Plant

For:

Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

12/9/2016 3:55:28 PM

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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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Job ID: 400-129627-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-129627-2

RAD

Method(s) PrecSep_0: Radium-228 Prep Batch 160-278438: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-2 (400-129627-1), MW-3 (400-129627-2), MW-6 (400-129627-3), MW-7 (400-129627-4), MW-8 (400-129627-5), MW-9 (400-129627-6), MW-10 (400-129627-7), MW-11 (400-129627-8), MW-12 (400-129627-9), MW-13 (400-129627-10), MW-14 (400-129627-11), DUP-01 (400-129627-12), DUP-02 (400-129627-13), EB-01 (400-129627-14), FB-01 (400-129627-15), EB-02 (400-129627-16), FB-02 (400-129627-17) and DUP-03 (400-129627-18). 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 160-278423: Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: MW-2 (400-129627-1), MW-3 (400-129627-2), MW-6 (400-129627-3), MW-7 (400-129627-4), MW-8 (400-129627-5), MW-9 (400-129627-6), MW-10 (400-129627-7), MW-11 (400-129627-8), MW-12 (400-129627-9), MW-13 (400-129627-10), MW-14 (400-129627-11), DUP-01 (400-129627-12), DUP-02 (400-129627-13), EB-01 (400-129627-14), FB-01 (400-129627-15), EB-02 (400-129627-16), FB-02 (400-129627-17) and DUP-03 (400-129627-18). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.



Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-129627-1	MW-2	Water	11/01/16 09:19	11/03/16 13:50
400-129627-2	MW-3	Water	11/01/16 13:29	11/03/16 13:50
400-129627-3	MW-6	Water	11/02/16 12:33	11/03/16 13:50
400-129627-4	MW-7	Water	11/02/16 13:42	11/03/16 13:50
400-129627-5	MW-8	Water	11/02/16 09:27	11/03/16 13:50
400-129627-6	MW-9	Water	11/03/16 10:59	11/03/16 13:50
400-129627-7	MW-10	Water	11/03/16 09:27	11/03/16 13:50
400-129627-8	MW-11	Water	11/03/16 07:48	11/03/16 13:50
400-129627-9	MW-12	Water	11/01/16 14:47	11/03/16 13:50
400-129627-10	MW-13	Water	11/02/16 07:58	11/03/16 13:50
400-129627-11	MW-14	Water	11/02/16 10:47	11/03/16 13:50
400-129627-12	DUP-01	Water	11/01/16 13:37	11/03/16 13:50
400-129627-13	DUP-02	Water	11/02/16 06:58	11/03/16 13:50
400-129627-14	EB-01	Water	11/02/16 13:55	11/03/16 13:50
400-129627-15	FB-01	Water	11/02/16 12:45	11/03/16 13:50
400-129627-16	EB-02	Water	11/03/16 11:02	11/03/16 13:50
400-129627-17	FB-02	Water	11/03/16 09:40	11/03/16 13:50
400-129627-18	DUP-03	Water	11/03/16 06:48	11/03/16 13:50

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-2
Date Collected: 11/01/16 09:19
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-1
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	1.14		0.334	0.349	1.00	0.287	pCi/L	11/09/16 09:43	12/07/16 17:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					11/09/16 09:43	12/07/16 17:28	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.611		0.315	0.320	1.00	0.468	pCi/L	11/09/16 11:27	12/06/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					11/09/16 11:27	12/06/16 15:29	1
Y Carrier	82.6		40 - 110					11/09/16 11:27	12/06/16 15:29	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	1.75		0.459	0.473	5.00	0.468	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-3
Date Collected: 11/01/16 13:29
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-2
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	1.20		0.409	0.423	1.00	0.409	pCi/L	11/09/16 09:43	12/06/16 20:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					11/09/16 09:43	12/06/16 20:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.628		0.278	0.284	1.00	0.396	pCi/L	11/09/16 11:27	12/06/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		40 - 110					11/09/16 11:27	12/06/16 15:29	1
Y Carrier	84.9		40 - 110					11/09/16 11:27	12/06/16 15:29	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	1.83		0.495	0.510	5.00	0.409	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-6
Date Collected: 11/02/16 12:33
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-3
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	13.8		1.22	1.74	1.00	0.387	pCi/L	11/09/16 09:43	12/06/16 20:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					11/09/16 09:43	12/06/16 20:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	18.2		1.01	1.95	1.00	0.516	pCi/L	11/09/16 11:27	12/06/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					11/09/16 11:27	12/06/16 15:29	1
Y Carrier	75.9		40 - 110					11/09/16 11:27	12/06/16 15:29	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	32.0		1.58	2.61	5.00	0.516	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-7
Date Collected: 11/02/16 13:42
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-4
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	18.8		1.67	2.38	1.00	0.508	pCi/L	11/09/16 09:43	12/06/16 20:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.1		40 - 110					11/09/16 09:43	12/06/16 20:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.62		0.834	1.03	1.00	0.733	pCi/L	11/09/16 11:27	12/06/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	56.1		40 - 110					11/09/16 11:27	12/06/16 15:29	1
Y Carrier	79.3		40 - 110					11/09/16 11:27	12/06/16 15:29	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	25.4		1.87	2.59	5.00	0.733	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-8
Date Collected: 11/02/16 09:27
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-5
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	17.9		1.45	2.17	1.00	0.368	pCi/L	11/09/16 09:43	12/06/16 20:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					11/09/16 09:43	12/06/16 20:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	24.4		1.19	2.54	1.00	0.467	pCi/L	11/09/16 11:27	12/06/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.8		40 - 110					11/09/16 11:27	12/06/16 15:29	1
Y Carrier	83.4		40 - 110					11/09/16 11:27	12/06/16 15:29	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	42.3		1.88	3.34	5.00	0.467	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-9
Date Collected: 11/03/16 10:59
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-6
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	12.3		1.16	1.61	1.00	0.425	pCi/L	11/09/16 09:43	12/06/16 20:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					11/09/16 09:43	12/06/16 20:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	9.11		0.714	1.10	1.00	0.439	pCi/L	11/09/16 11:27	12/06/16 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					11/09/16 11:27	12/06/16 15:29	1
Y Carrier	81.9		40 - 110					11/09/16 11:27	12/06/16 15:29	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	21.5		1.37	1.95	5.00	0.439	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-10
Date Collected: 11/03/16 09:27
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-7
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	8.12		0.957	1.20	1.00	0.418	pCi/L	11/09/16 09:43	12/06/16 20:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.2		40 - 110					11/09/16 09:43	12/06/16 20:56	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	18.1		1.02	1.96	1.00	0.461	pCi/L	11/09/16 11:27	12/06/16 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.2		40 - 110					11/09/16 11:27	12/06/16 15:30	1
Y Carrier	85.2		40 - 110					11/09/16 11:27	12/06/16 15:30	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	26.2		1.40	2.30	5.00	0.461	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-11

Date Collected: 11/03/16 07:48

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-8

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	19.7		1.40	2.26	1.00	0.440	pCi/L	11/09/16 09:43	12/06/16 22:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					11/09/16 09:43	12/06/16 22:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.68		0.558	0.764	1.00	0.393	pCi/L	11/09/16 11:27	12/06/16 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					11/09/16 11:27	12/06/16 15:30	1
Y Carrier	86.0		40 - 110					11/09/16 11:27	12/06/16 15:30	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	25.4		1.51	2.39	5.00	0.440	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-12

Date Collected: 11/01/16 14:47

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-9

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	2.02		0.502	0.534	1.00	0.438	pCi/L	11/09/16 09:43	12/06/16 22:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					11/09/16 09:43	12/06/16 22:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.572		0.300	0.304	1.00	0.446	pCi/L	11/09/16 11:27	12/06/16 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					11/09/16 11:27	12/06/16 15:30	1
Y Carrier	83.4		40 - 110					11/09/16 11:27	12/06/16 15:30	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	2.59		0.585	0.615	5.00	0.446	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-13
Date Collected: 11/02/16 07:58
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-10
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	5.74		0.787	0.942	1.00	0.369	pCi/L	11/09/16 09:43	12/06/16 22:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					11/09/16 09:43	12/06/16 22:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	3.73		0.476	0.587	1.00	0.397	pCi/L	11/09/16 11:27	12/06/16 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					11/09/16 11:27	12/06/16 15:30	1
Y Carrier	84.1		40 - 110					11/09/16 11:27	12/06/16 15:30	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	9.47		0.920	1.11	5.00	0.397	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-14
Date Collected: 11/02/16 10:47
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-11
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	4.98		0.764	0.886	1.00	0.391	pCi/L	11/09/16 09:43	12/06/16 22:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					11/09/16 09:43	12/06/16 22:54	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	6.37		0.621	0.854	1.00	0.411	pCi/L	11/09/16 11:27	12/06/16 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.3		40 - 110					11/09/16 11:27	12/06/16 15:30	1
Y Carrier	85.6		40 - 110					11/09/16 11:27	12/06/16 15:30	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	11.3		0.985	1.23	5.00	0.411	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: DUP-01

Date Collected: 11/01/16 13:37

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-12

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	2.18		0.541	0.576	1.00	0.460	pCi/L	11/09/16 09:43	12/06/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					11/09/16 09:43	12/06/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.838		0.315	0.325	1.00	0.428	pCi/L	11/09/16 11:27	12/06/16 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					11/09/16 11:27	12/06/16 15:30	1
Y Carrier	84.9		40 - 110					11/09/16 11:27	12/06/16 15:30	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	3.02		0.626	0.661	5.00	0.460	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: DUP-02

Date Collected: 11/02/16 06:58

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-13

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	9.24		1.03	1.32	1.00	0.403	pCi/L	11/09/16 09:43	12/06/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		40 - 110					11/09/16 09:43	12/06/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	8.46		0.724	1.06	1.00	0.495	pCi/L	11/09/16 11:27	12/06/16 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		40 - 110					11/09/16 11:27	12/06/16 15:30	1
Y Carrier	86.7		40 - 110					11/09/16 11:27	12/06/16 15:30	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	17.7		1.26	1.70	5.00	0.495	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: EB-01
Date Collected: 11/02/16 13:55
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-14
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	-0.0457	U	0.153	0.153	1.00	0.346	pCi/L	11/09/16 09:43	12/06/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					11/09/16 09:43	12/06/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.289	U	0.222	0.224	1.00	0.347	pCi/L	11/09/16 11:27	12/06/16 15:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					11/09/16 11:27	12/06/16 15:31	1
Y Carrier	86.4		40 - 110					11/09/16 11:27	12/06/16 15:31	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	0.244	U	0.270	0.271	5.00	0.347	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: FB-01
Date Collected: 11/02/16 12:45
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-15
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106	U	0.207	0.207	1.00	0.371	pCi/L	11/09/16 09:43	12/06/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					11/09/16 09:43	12/06/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.155	U	0.248	0.249	1.00	0.419	pCi/L	11/09/16 11:27	12/06/16 15:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					11/09/16 11:27	12/06/16 15:31	1
Y Carrier	82.2		40 - 110					11/09/16 11:27	12/06/16 15:31	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	0.261	U	0.323	0.324	5.00	0.419	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: EB-02
Date Collected: 11/03/16 11:02
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-16
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.101	U	0.192	0.193	1.00	0.344	pCi/L	11/09/16 09:43	12/06/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					11/09/16 09:43	12/06/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0545	U	0.246	0.246	1.00	0.447	pCi/L	11/09/16 11:27	12/06/16 15:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		40 - 110					11/09/16 11:27	12/06/16 15:31	1
Y Carrier	79.3		40 - 110					11/09/16 11:27	12/06/16 15:31	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	0.0462	U	0.312	0.313	5.00	0.447	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: FB-02
Date Collected: 11/03/16 09:40
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-17
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0545	U	0.195	0.195	1.00	0.373	pCi/L	11/09/16 09:43	12/06/16 22:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					11/09/16 09:43	12/06/16 22:55	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.204	U	0.247	0.248	1.00	0.409	pCi/L	11/09/16 11:27	12/06/16 15:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					11/09/16 11:27	12/06/16 15:31	1
Y Carrier	82.6		40 - 110					11/09/16 11:27	12/06/16 15:31	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	0.258	U	0.315	0.315	5.00	0.409	pCi/L		12/08/16 17:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: DUP-03

Date Collected: 11/03/16 06:48

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-18

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	18.4		1.23	2.07	1.00	0.347	pCi/L	11/09/16 09:43	12/07/16 17:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.1		40 - 110					11/09/16 09:43	12/07/16 17:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.12		0.573	0.742	1.00	0.446	pCi/L	11/09/16 11:27	12/06/16 15:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.1		40 - 110					11/09/16 11:27	12/06/16 15:31	1
Y Carrier	84.9		40 - 110					11/09/16 11:27	12/06/16 15:31	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	23.5		1.36	2.20	5.00	0.446	pCi/L		12/08/16 17:20	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-2
Date Collected: 11/01/16 09:19
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282985	12/07/16 17:28	RTM	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:29	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: MW-3
Date Collected: 11/01/16 13:29
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 20:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:29	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: MW-6
Date Collected: 11/02/16 12:33
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 20:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:29	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: MW-7
Date Collected: 11/02/16 13:42
Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 20:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:29	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-8

Date Collected: 11/02/16 09:27

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 20:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:29	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: MW-9

Date Collected: 11/03/16 10:59

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 20:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:29	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: MW-10

Date Collected: 11/03/16 09:27

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 20:56	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: MW-11

Date Collected: 11/03/16 07:48

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:54	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: MW-12

Date Collected: 11/01/16 14:47

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:54	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: MW-13

Date Collected: 11/02/16 07:58

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:54	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: MW-14

Date Collected: 11/02/16 10:47

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:54	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: DUP-01

Date Collected: 11/01/16 13:37

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: DUP-02

Lab Sample ID: 400-129627-13

Date Collected: 11/02/16 06:58

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: EB-01

Lab Sample ID: 400-129627-14

Date Collected: 11/02/16 13:55

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:31	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: FB-01

Lab Sample ID: 400-129627-15

Date Collected: 11/02/16 12:45

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:31	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: EB-02

Lab Sample ID: 400-129627-16

Date Collected: 11/03/16 11:02

Matrix: Water

Date Received: 11/03/16 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:31	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Client Sample ID: FB-02

Date Collected: 11/03/16 09:40

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282777	12/06/16 22:55	MLK	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:31	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	RTM	TAL SL

Client Sample ID: DUP-03

Date Collected: 11/03/16 06:48

Date Received: 11/03/16 13:50

Lab Sample ID: 400-129627-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			278423	11/09/16 09:43	AS	TAL SL
Total/NA	Analysis	9315		1	282986	12/07/16 17:27	RTM	TAL SL
Total/NA	Prep	PrecSep_0			278438	11/09/16 11:27	AS	TAL SL
Total/NA	Analysis	9320		1	282777	12/06/16 15:31	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	283098	12/08/16 17:20	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: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Rad

Prep Batch: 278423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total/NA	Water	PrecSep-21	
400-129627-2	MW-3	Total/NA	Water	PrecSep-21	
400-129627-3	MW-6	Total/NA	Water	PrecSep-21	
400-129627-4	MW-7	Total/NA	Water	PrecSep-21	
400-129627-5	MW-8	Total/NA	Water	PrecSep-21	
400-129627-6	MW-9	Total/NA	Water	PrecSep-21	
400-129627-7	MW-10	Total/NA	Water	PrecSep-21	
400-129627-8	MW-11	Total/NA	Water	PrecSep-21	
400-129627-9	MW-12	Total/NA	Water	PrecSep-21	
400-129627-10	MW-13	Total/NA	Water	PrecSep-21	
400-129627-11	MW-14	Total/NA	Water	PrecSep-21	
400-129627-12	DUP-01	Total/NA	Water	PrecSep-21	
400-129627-13	DUP-02	Total/NA	Water	PrecSep-21	
400-129627-14	EB-01	Total/NA	Water	PrecSep-21	
400-129627-15	FB-01	Total/NA	Water	PrecSep-21	
400-129627-16	EB-02	Total/NA	Water	PrecSep-21	
400-129627-17	FB-02	Total/NA	Water	PrecSep-21	
400-129627-18	DUP-03	Total/NA	Water	PrecSep-21	
MB 160-278423/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-278423/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-278423/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 278438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-129627-1	MW-2	Total/NA	Water	PrecSep_0	
400-129627-2	MW-3	Total/NA	Water	PrecSep_0	
400-129627-3	MW-6	Total/NA	Water	PrecSep_0	
400-129627-4	MW-7	Total/NA	Water	PrecSep_0	
400-129627-5	MW-8	Total/NA	Water	PrecSep_0	
400-129627-6	MW-9	Total/NA	Water	PrecSep_0	
400-129627-7	MW-10	Total/NA	Water	PrecSep_0	
400-129627-8	MW-11	Total/NA	Water	PrecSep_0	
400-129627-9	MW-12	Total/NA	Water	PrecSep_0	
400-129627-10	MW-13	Total/NA	Water	PrecSep_0	
400-129627-11	MW-14	Total/NA	Water	PrecSep_0	
400-129627-12	DUP-01	Total/NA	Water	PrecSep_0	
400-129627-13	DUP-02	Total/NA	Water	PrecSep_0	
400-129627-14	EB-01	Total/NA	Water	PrecSep_0	
400-129627-15	FB-01	Total/NA	Water	PrecSep_0	
400-129627-16	EB-02	Total/NA	Water	PrecSep_0	
400-129627-17	FB-02	Total/NA	Water	PrecSep_0	
400-129627-18	DUP-03	Total/NA	Water	PrecSep_0	
MB 160-278438/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-278438/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-278438/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-278423/1-A
Matrix: Water
Analysis Batch: 282777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278423

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1535	U	0.214	0.215	1.00	0.362	pCi/L	11/09/16 09:43	12/06/16 20:54	1
Carrier	%Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					11/09/16 09:43	12/06/16 20:54	1

Lab Sample ID: LCS 160-278423/2-A
Matrix: Water
Analysis Batch: 282777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278423

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	12.06		1.58	1.00	0.380	pCi/L	109	68 - 137
Carrier	%Yield	LCS Qualifier	Limits						
Ba Carrier	89.2		40 - 110						

Lab Sample ID: LCSD 160-278423/3-A
Matrix: Water
Analysis Batch: 282777

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278423

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.1	11.34		1.54	1.00	0.408	pCi/L	102	68 - 137	0.23	1
Carrier	%Yield	LCSD Qualifier	Limits								
Ba Carrier	83.5		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-278438/1-A
Matrix: Water
Analysis Batch: 282777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278438

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.8237		0.432	0.438	1.00	0.642	pCi/L	11/09/16 11:27	12/06/16 15:28	1
Carrier	%Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					11/09/16 11:27	12/06/16 15:28	1
Y Carrier	52.0		40 - 110					11/09/16 11:27	12/06/16 15:28	1

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

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

Lab Sample ID: LCS 160-278438/2-A
Matrix: Water
Analysis Batch: 282777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278438

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	14.2	14.71		1.61	1.00	0.441	pCi/L	104	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	89.5		40 - 110
Y Carrier	81.9		40 - 110



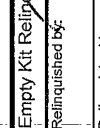

Lab Sample ID: LCSD 160-278438/3-A
Matrix: Water
Analysis Batch: 282777

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 278438

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	14.2	15.77		1.86	1.00	0.761	pCi/L	111	56 - 140	0.30	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	83.5		40 - 110
Y Carrier	54.6		40 - 110

Chain of Custody Record

Client Information Client Contact: Kristi Mitchell Company: Gulf Power Company Address: BIN 731 One Energy Place City: Pensacola State, Zip: FL, 32520 Phone: 850-444-6427 (Tel) Email: krmitch@southernco.com Project Name: CCR Smith Plant Site:		Lab PMT: Whitmore, Cheyenne R E-Mail: cheyenne.whitmore@testamericainc.com Carrier Tracking No(s): COC No: 400-53432-23565.1 Page: Page 1 of 2 Job #:									
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #:		Analysis Requested 9316_Ra226, 9320_Ra228, Ra226Ra228_GFP SM4500_C1_E - Chloride, SM4500_SO4_E - Sulfate, 2540C - Total Dissolved Solids, 4500_F_C - Fluoride 6020 - Sp,As,Ba,Bi,Bb,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl,7470A - Mercury Field Sampling - Field Sampling Parameters									
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (Water, Solid, Gas) Preservation Code:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) Total Number of Containers Special Instructions/Note: 400-129627 COC 									
MW-2	11/11/16	0919	G	Water		X	X	X	X		
MW-3	11/11/16	1329		Water		X	X	X	X		
MW-6	11/12/16	1233		Water		X	X	X	X		
MW-7	11/12/16	1342		Water		X	X	X	X		
MW-8	11/21/16	0927		Water		X	X	X	X		
MW-9	11/31/16	1059		Water		X	X	X	X		
MW-10	11/31/16	0927		Water		X	X	X	X		
MW-11	11/31/16	0748		Water		X	X	X	X		
MW-12	11/11/16	1447		Water		X	X	X	X		
MW-13	11/21/16	0758		Water		X	X	X	X		
MW-14	11/21/16	1047	G	Water		X	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)				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:  Date: 11/3/16 Relinquished by:  Date: 11/3/16 Relinquished by: Date: Relinquished by: Date:				Method of Shipment: Received by:  Date/Time: 11/3/16 1350 Received by: Date/Time: Received by: Date/Time:							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: 0.0, 0.2, 0.0, 0.0, 0.0, 0.0							

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: Kristi Mitchell Company: Gulf Power Company Address: BIN 731 One Energy Place City: Pensacola State, Zip: FL, 32520 Phone: 850-444-6427(Tel) Email: krmitch@southernco.com Project Name: CCR Smith Plant Site:		Samples: Brett Sikes Phone: 850 380 3458 Lab P/IC: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): COC No: 400-53432-23565.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 40006609 SSOW#:		Analysis Requested Field Sampling - Field Sampling Parameters Mercury 6020 - Sb,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,LI,Mo,Se,Tl,7470A - Total Dissolved Solids, 4500 F, C - Fluoride SM4500 Cl, E - Chloride, SM4500 SO4, E - Sulfate, 2540C - 9315_Ra226, 9320_Ra228, Ra226Ra228_GFP Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)	
Sample Identification Sample ID: FB-01 EB-01 DUP-01 FB-02 EB-02 DUP-02 DUP-03		Sample Date: 11/21/16 11/21/16 11/11/16 11/3/16 11/10/16 11/2/16 11/3/16	
Sample Time: 1245 1355 1357 1050 1102 0658 0648		Sample Type (C=Comp, G=grab): G G G G G G G	
Matrix (W=Water, S=Soil, O=Other, BT=Tissue, A=Air): Water Water Water Water Water Water Water		Preservation Codes: 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 L - EDA Other:	
Special Instructions/Note: Total Number of Containers:		Special Instructions/Note: 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/QC Requirements:			
Empty Kit Relinquished by: <i>David J...</i> Date/Time: 11/3/16 1350 Company: JAA-Ren		Received by: <i>[Signature]</i> Date/Time: 11/3/16 1350 Company: JAA-Ren	
Relinquished by: Date/Time: Company:		Received by: Date/Time: Company:	
Relinquished by: Date/Time: Company:		Received by: Date/Time: Company:	
Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>		Cooler Temperature(s) °C and Other Remarks:	



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-129627-2

SDG Number:

Login Number: 129627

List Number: 1

Creator: Harris, John 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, 0.0°C, 0.0°C, 0.0°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.	True	
Residual Chlorine Checked.	N/A	



Certification Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

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	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	12-31-16
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	06-30-17
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.

TestAmerica Pensacola

Certification Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-129627-2

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: 400-132315-1

Client Project/Site: CCR Smith Plant

For:

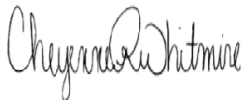
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

1/31/2017 8:46:30 AM

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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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Job ID: 400-132315-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-132315-1

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-6 (400-132315-3), MW-7 (400-132315-4), MW-8 (400-132315-5), MW-9 (400-132315-6), MW-10 (400-132315-7), MW-11 (400-132315-8), MW-13 (400-132315-10), MW-14 (400-132315-11) and DUP-02 (400-132315-17). Elevated reporting limits (RLs) are provided.

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 337670 and analytical batch 338347 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: Due to matrix effects, internal standards (ISTD) recovered high outside laboratory upper limit (>120%) for the following analytes: Arsenic, Cobalt and Chromium. Additional dilution to return ISTD to control would elevate reporting limits beyond acceptable target detection limits.

General Chemistry

Method(s) SM 4500 F C: The sample duplicate precision for the following sample associated with batch 337952 was outside control limits. The data is considered valid because the sample results are less than 5 times the RL and the absolute difference is less than RL. (400-132315-A-11 DU).

Method(s) SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 337952 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. Samples were re-analyzed at a dilution to verify matrix interference.

Method(s) SM 4500 Cl- E: The matrix spike duplicate (MSD) precision for analytical batch 338123 was 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 (MSD) recoveries for analytical batch 338156 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 338017 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-2

Lab Sample ID: 400-132315-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.019		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	44		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0024	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.0079		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0011	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	140		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	0.23		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	6.88				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-132315-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00085	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.017		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.8		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0030		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lead	0.00039	I	0.0013	0.00035	mg/L	5		6020	Total Recoverable
Lithium	0.012		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	44		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
Field pH	4.99				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-132315-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.072		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00039	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0047	I	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.0012	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Calcium - DL	240		1.3	0.63	mg/L	25		6020	Total Recoverable
Boron - DL2	8.1		1.0	0.42	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	5500		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2900		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Sulfate	490		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	5.2				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-7

Lab Sample ID: 400-132315-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0023		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.067		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0015	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.0087	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00028	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	2.5		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	190		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3500		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	1400		60	18	mg/L	30		SM 4500 Cl- E	Total/NA
Sulfate	640		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	6.18				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-132315-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0013		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.068		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.0014	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0081		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Selenium	0.00097	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	13		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	570		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	7200		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	3900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	950		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	4.66				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-132315-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0028		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.10		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00039	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0049	I	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0014	I	0.015	0.00085	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-9 (Continued)

Lab Sample ID: 400-132315-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.00033	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	9.2		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	370		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	4900		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2700		110	33	mg/L	55		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	830		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	5.94				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-132315-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0034		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00055	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0049	I	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0041	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00041	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	7.9		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	540		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	5900		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	2900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	900		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	5.3				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-132315-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0013	I	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0038		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.017		0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00051	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Arsenic - DL	0.029		0.0063	0.0023	mg/L	25		6020	Total Recoverable
Boron - DL	4.7		0.25	0.11	mg/L	25		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-11 (Continued)

Lab Sample ID: 400-132315-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium - DL	150		1.3	0.63	mg/L	25		6020	Total
Total Dissolved Solids	3800		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	2700		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	350		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	6.5				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-132315-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.015		0.0025	0.00049	mg/L	5		6020	Total
Boron	0.062		0.050	0.021	mg/L	5		6020	Total
Calcium	36		0.25	0.13	mg/L	5		6020	Total
Lithium	0.012		0.0050	0.0032	mg/L	5		6020	Total
Total Dissolved Solids	520		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	220		20	6.0	mg/L	10		SM 4500 Cl- E	Total/NA
Fluoride	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	6.1				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-132315-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00066	I	0.0013	0.00046	mg/L	5		6020	Total
Barium	0.13		0.0025	0.00049	mg/L	5		6020	Total
Lithium	0.21		0.0050	0.0032	mg/L	5		6020	Total
Molybdenum	0.0094	I	0.015	0.00085	mg/L	5		6020	Total
Selenium	0.00090	I	0.0013	0.00024	mg/L	5		6020	Total
Boron - DL	20		2.0	0.84	mg/L	200		6020	Total
Calcium - DL	870		10	5.0	mg/L	200		6020	Total
Total Dissolved Solids	11000		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	4900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.060	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1100		180	49	mg/L	35		SM 4500 SO4 E	Total/NA
Field pH	7.02				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-132315-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0034		0.0013	0.00046	mg/L	5		6020	Total
Barium	0.060		0.0025	0.00049	mg/L	5		6020	Total

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-14 (Continued)

Lab Sample ID: 400-132315-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.018		0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	12		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	270		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	4700		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	2500		110	33	mg/L	55		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	650		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	6.7				SU	1		Field Sampling	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 400-132315-12

No Detections.

Client Sample ID: EB-01

Lab Sample ID: 400-132315-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0019	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable

Client Sample ID: DUP-01

Lab Sample ID: 400-132315-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00052	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.019		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.17		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	44		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0025		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.0068		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.00095	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	190		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	0.22		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: FB-02

Lab Sample ID: 400-132315-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	6.0		5.0	3.4	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EB-02

Lab Sample ID: 400-132315-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.054		0.0025	0.0011	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: EB-02 (Continued)

Lab Sample ID: 400-132315-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.00046	I	0.0025	0.00040	mg/L	5		6020	Total Recoverable

Client Sample ID: DUP-02

Lab Sample ID: 400-132315-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0034		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.059		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum	0.018		0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00042	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - DL	11		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	270		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	4200		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	2400		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	660		150	42	mg/L	30		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-132315-1	MW-2	Water	01/04/17 12:53	01/06/17 08:22
400-132315-2	MW-3	Water	01/04/17 15:48	01/06/17 08:22
400-132315-3	MW-6	Water	01/05/17 16:36	01/06/17 08:22
400-132315-4	MW-7	Water	01/05/17 15:22	01/06/17 08:22
400-132315-5	MW-8	Water	01/05/17 13:11	01/06/17 08:22
400-132315-6	MW-9	Water	01/05/17 11:01	01/06/17 08:22
400-132315-7	MW-10	Water	01/05/17 08:43	01/06/17 08:22
400-132315-8	MW-11	Water	01/05/17 07:55	01/06/17 08:22
400-132315-9	MW-12	Water	01/04/17 10:58	01/06/17 08:22
400-132315-10	MW-13	Water	01/05/17 14:05	01/06/17 08:22
400-132315-11	MW-14	Water	01/05/17 11:44	01/06/17 08:22
400-132315-12	FB-01	Water	01/05/17 12:30	01/06/17 08:22
400-132315-13	EB-01	Water	01/05/17 14:15	01/06/17 08:22
400-132315-14	DUP-01	Water	01/04/17 11:53	01/06/17 08:22
400-132315-15	FB-02	Water	01/05/17 14:50	01/06/17 08:22
400-132315-16	EB-02	Water	01/05/17 16:50	01/06/17 08:22
400-132315-17	DUP-02	Water	01/05/17 10:44	01/06/17 08:22

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-2
Date Collected: 01/04/17 12:53
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 14:15	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 14:15	5
Barium	0.019		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 14:15	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:15	5
Boron	0.021	U	0.050	0.021	mg/L		01/09/17 08:25	01/12/17 14:15	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:15	5
Calcium	44		0.25	0.13	mg/L		01/09/17 08:25	01/12/17 14:15	5
Chromium	0.0024	I	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 14:15	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 14:15	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 14:15	5
Lithium	0.0079		0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 14:15	5
Molybdenum	0.0011	I	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 14:15	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 14:15	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 14:15	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:42	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	140		5.0	3.4	mg/L			01/08/17 13:36	1
Chloride	11		2.0	0.60	mg/L			01/11/17 10:20	1
Fluoride	0.23		0.10	0.032	mg/L			01/09/17 15:05	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 16:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.88				SU			01/04/17 12:53	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-3
Date Collected: 01/04/17 15:48
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 14:24	5
Arsenic	0.00085	I	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 14:24	5
Barium	0.017		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 14:24	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:24	5
Boron	0.021	U	0.050	0.021	mg/L		01/09/17 08:25	01/12/17 14:24	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:24	5
Calcium	1.8		0.25	0.13	mg/L		01/09/17 08:25	01/12/17 14:24	5
Chromium	0.0030		0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 14:24	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 14:24	5
Lead	0.00039	I	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 14:24	5
Lithium	0.012		0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 14:24	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 14:24	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 14:24	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 14:24	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	44		5.0	3.4	mg/L			01/08/17 13:36	1
Chloride	11		2.0	0.60	mg/L			01/11/17 10:20	1
Fluoride	0.032	U	0.10	0.032	mg/L			01/09/17 15:20	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 16:22	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.99				SU			01/04/17 15:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-6
Date Collected: 01/05/17 16:36
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 13:16	5
Arsenic	0.0017		0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 13:16	5
Barium	0.072		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 13:16	5
Beryllium	0.00039	I	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 13:16	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 13:16	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 13:16	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 13:16	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 13:16	5
Lithium	0.0047	I	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 13:16	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 13:16	5
Selenium	0.0012	I	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 13:16	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 13:16	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	240		1.3	0.63	mg/L		01/09/17 08:25	01/12/17 13:57	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	8.1		1.0	0.42	mg/L		01/09/17 08:25	01/12/17 14:20	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5500		25	17	mg/L			01/08/17 13:36	1
Chloride	2900		120	36	mg/L			01/11/17 13:08	60
Fluoride	0.032	U	0.10	0.032	mg/L			01/09/17 15:23	1
Sulfate	490		100	28	mg/L			01/10/17 16:49	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.2				SU			01/05/17 16:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-7
Date Collected: 01/05/17 15:22
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-4
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 14:42	5
Arsenic	0.0023		0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 14:42	5
Barium	0.067		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 14:42	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:42	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:42	5
Chromium	0.0015	I	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 14:42	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 14:42	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 14:42	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 14:42	5
Molybdenum	0.0087	I	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 14:42	5
Selenium	0.00028	I	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 14:42	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 14:42	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.5		0.25	0.11	mg/L		01/09/17 08:25	01/12/17 15:41	25
Calcium	190		1.3	0.63	mg/L		01/09/17 08:25	01/12/17 15:41	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3500		25	17	mg/L			01/08/17 13:36	1
Chloride	1400		60	18	mg/L			01/11/17 11:07	30
Fluoride	0.032	U	0.10	0.032	mg/L			01/09/17 15:26	1
Sulfate	640		100	28	mg/L			01/10/17 16:49	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.18				SU			01/05/17 15:22	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-8
Date Collected: 01/05/17 13:11
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 15:32	5
Arsenic	0.0013		0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 15:32	5
Barium	0.068		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 15:32	5
Beryllium	0.0014	I	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 15:32	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 15:32	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 15:32	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 15:32	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 15:32	5
Lithium	0.0081		0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 15:32	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 15:32	5
Selenium	0.00097	I	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 15:32	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 15:32	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13		2.0	0.84	mg/L		01/09/17 08:25	01/12/17 15:45	200
Calcium	570		10	5.0	mg/L		01/09/17 08:25	01/12/17 15:45	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7200		50	34	mg/L			01/08/17 13:36	1
Chloride	3900		200	60	mg/L			01/11/17 16:15	100
Fluoride	0.032	U	0.10	0.032	mg/L			01/10/17 12:13	1
Sulfate	950		150	42	mg/L			01/10/17 14:08	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.66				SU			01/05/17 13:11	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-9

Date Collected: 01/05/17 11:01

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-6

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 15:49	5
Arsenic	0.0028		0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 15:49	5
Barium	0.10		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 15:49	5
Beryllium	0.00039	I	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 15:49	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 15:49	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 15:49	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 15:49	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 15:49	5
Lithium	0.0049	I	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 15:49	5
Molybdenum	0.0014	I	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 15:49	5
Selenium	0.00033	I	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 15:49	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 15:49	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.2		1.0	0.42	mg/L		01/09/17 08:25	01/12/17 16:03	100
Calcium	370		5.0	2.5	mg/L		01/09/17 08:25	01/12/17 16:03	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:48	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4900		25	17	mg/L			01/08/17 13:36	1
Chloride	2700		110	33	mg/L			01/10/17 14:06	55
Fluoride	0.040	I	0.10	0.032	mg/L			01/10/17 12:22	1
Sulfate	830		150	42	mg/L			01/10/17 14:08	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.94				SU			01/05/17 11:01	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-10

Date Collected: 01/05/17 08:43

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-7

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 15:54	5
Arsenic	0.0034		0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 15:54	5
Barium	0.12		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 15:54	5
Beryllium	0.00055	I	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 15:54	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 15:54	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 15:54	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 15:54	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 15:54	5
Lithium	0.0049	I	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 15:54	5
Molybdenum	0.0041	I	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 15:54	5
Selenium	0.00041	I	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 15:54	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 15:54	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	7.9		2.0	0.84	mg/L		01/09/17 08:25	01/12/17 16:07	200
Calcium	540		10	5.0	mg/L		01/09/17 08:25	01/12/17 16:07	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:49	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5900		50	34	mg/L			01/08/17 13:36	1
Chloride	2900		200	60	mg/L			01/11/17 16:15	100
Fluoride	0.040	I	0.10	0.032	mg/L			01/10/17 12:26	1
Sulfate	900		150	42	mg/L			01/10/17 14:08	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.3				SU			01/05/17 08:43	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-11

Date Collected: 01/05/17 07:55

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-8

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0013	I	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 16:12	5
Barium	0.12		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 16:12	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:12	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:12	5
Chromium	0.0038		0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 16:12	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 16:12	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 16:12	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 16:12	5
Molybdenum	0.017		0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 16:12	5
Selenium	0.00051	I	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 16:12	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 16:12	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.029		0.0063	0.0023	mg/L		01/09/17 08:25	01/12/17 16:56	25
Boron	4.7		0.25	0.11	mg/L		01/09/17 08:25	01/12/17 16:56	25
Calcium	150		1.3	0.63	mg/L		01/09/17 08:25	01/12/17 16:56	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3800		50	34	mg/L			01/10/17 13:56	1
Chloride	2700		200	60	mg/L			01/11/17 16:15	100
Fluoride	0.032	U	0.10	0.032	mg/L			01/10/17 12:29	1
Sulfate	350		100	28	mg/L			01/10/17 16:49	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.5				SU			01/05/17 07:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-12

Date Collected: 01/04/17 10:58

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-9

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 16:38	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 16:38	5
Barium	0.015		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 16:38	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:38	5
Boron	0.062		0.050	0.021	mg/L		01/09/17 08:25	01/12/17 16:38	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:38	5
Calcium	36		0.25	0.13	mg/L		01/09/17 08:25	01/12/17 16:38	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 16:38	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 16:38	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 16:38	5
Lithium	0.012		0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 16:38	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 16:38	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 16:38	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 16:38	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:52	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	520		5.0	3.4	mg/L			01/08/17 13:36	1
Chloride	220		20	6.0	mg/L			01/10/17 11:01	10
Fluoride	0.10		0.10	0.032	mg/L			01/10/17 12:31	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 10:51	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.1				SU			01/04/17 10:58	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-13

Date Collected: 01/05/17 14:05

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-10

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 16:43	5
Arsenic	0.00066	I	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 16:43	5
Barium	0.13		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 16:43	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:43	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:43	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 16:43	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 16:43	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 16:43	5
Lithium	0.21		0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 16:43	5
Molybdenum	0.0094	I	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 16:43	5
Selenium	0.00090	I	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 16:43	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 16:43	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	20		2.0	0.84	mg/L		01/09/17 08:25	01/12/17 17:14	200
Calcium	870		10	5.0	mg/L		01/09/17 08:25	01/12/17 17:14	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	11000		50	34	mg/L			01/10/17 13:56	1
Chloride	4900		200	60	mg/L			01/11/17 16:15	100
Fluoride	0.060	I	0.10	0.032	mg/L			01/10/17 12:33	1
Sulfate	1100		180	49	mg/L			01/10/17 17:14	35

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.02				SU			01/05/17 14:05	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-14
Date Collected: 01/05/17 11:44
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-11
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 16:47	5
Arsenic	0.0034		0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 16:47	5
Barium	0.060		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 16:47	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:47	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:47	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 16:47	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 16:47	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 16:47	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 16:47	5
Molybdenum	0.018		0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 16:47	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 16:47	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 16:47	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		1.0	0.42	mg/L		01/09/17 08:25	01/12/17 17:18	100
Calcium	270		5.0	2.5	mg/L		01/09/17 08:25	01/12/17 17:18	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4700		50	34	mg/L			01/10/17 13:56	1
Chloride	2500		110	33	mg/L			01/10/17 14:09	55
Fluoride	0.040	I	0.10	0.032	mg/L			01/10/17 13:01	1
Sulfate	650		150	42	mg/L			01/10/17 17:03	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.7				SU			01/05/17 11:44	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: FB-01

Date Collected: 01/05/17 12:30

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-12

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 14:29	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 14:29	5
Barium	0.00049	U	0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 14:29	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:29	5
Boron	0.021	U	0.050	0.021	mg/L		01/09/17 08:25	01/12/17 14:29	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:29	5
Calcium	0.13	U	0.25	0.13	mg/L		01/09/17 08:25	01/12/17 14:29	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 14:29	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 14:29	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 14:29	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 14:29	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 14:29	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 14:29	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 14:29	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 16:00	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			01/10/17 13:56	1
Chloride	0.60	U	2.0	0.60	mg/L			01/10/17 12:10	1
Fluoride	0.032	U	0.10	0.032	mg/L			01/10/17 12:36	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 16:22	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: EB-01
Date Collected: 01/05/17 14:15
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-13
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 14:33	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 14:33	5
Barium	0.00049	U	0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 14:33	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:33	5
Boron	0.021	U	0.050	0.021	mg/L		01/09/17 08:25	01/12/17 14:33	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:33	5
Calcium	0.13	U	0.25	0.13	mg/L		01/09/17 08:25	01/12/17 14:33	5
Chromium	0.0019	I	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 14:33	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 14:33	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 14:33	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 14:33	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 14:33	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 14:33	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 14:33	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 16:01	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			01/10/17 13:56	1
Chloride	0.60	U	2.0	0.60	mg/L			01/10/17 12:10	1
Fluoride	0.032	U	0.10	0.032	mg/L			01/10/17 12:44	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 16:24	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: DUP-01

Date Collected: 01/04/17 11:53

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-14

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 16:52	5
Arsenic	0.00052	I	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 16:52	5
Barium	0.019		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 16:52	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:52	5
Boron	0.17		0.050	0.021	mg/L		01/09/17 08:25	01/12/17 16:52	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 16:52	5
Calcium	44		0.25	0.13	mg/L		01/09/17 08:25	01/12/17 16:52	5
Chromium	0.0025		0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 16:52	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 16:52	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 16:52	5
Lithium	0.0068		0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 16:52	5
Molybdenum	0.00095	I	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 16:52	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 16:52	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 16:52	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 16:02	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		5.0	3.4	mg/L			01/08/17 13:36	1
Chloride	10		2.0	0.60	mg/L			01/10/17 09:43	1
Fluoride	0.22		0.10	0.032	mg/L			01/10/17 13:05	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 16:24	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: FB-02
Date Collected: 01/05/17 14:50
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-15
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 17:05	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 17:05	5
Barium	0.00049	U	0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 17:05	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 17:05	5
Boron	0.021	U	0.050	0.021	mg/L		01/09/17 08:25	01/12/17 17:05	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 17:05	5
Calcium	0.13	U	0.25	0.13	mg/L		01/09/17 08:25	01/12/17 17:05	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 17:05	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 17:05	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 17:05	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 17:05	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 17:05	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 17:05	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 17:05	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 16:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6.0		5.0	3.4	mg/L			01/10/17 13:56	1
Chloride	0.60	U	2.0	0.60	mg/L			01/10/17 12:10	1
Fluoride	0.032	U	0.10	0.032	mg/L			01/10/17 13:08	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 16:25	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: EB-02
Date Collected: 01/05/17 16:50
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-16
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 14:38	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 14:38	5
Barium	0.00049	U	0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 14:38	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:38	5
Boron	0.021	U	0.050	0.021	mg/L		01/09/17 08:25	01/12/17 14:38	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 14:38	5
Calcium	0.13	U	0.25	0.13	mg/L		01/09/17 08:25	01/12/17 14:38	5
Chromium	0.054		0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 14:38	5
Cobalt	0.00046	I	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 14:38	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 14:38	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 14:38	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 14:38	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 14:38	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 14:38	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 16:05	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			01/10/17 13:56	1
Chloride	0.60	U	2.0	0.60	mg/L			01/10/17 12:10	1
Fluoride	0.032	U	0.10	0.032	mg/L			01/10/17 13:11	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 16:25	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: DUP-02

Date Collected: 01/05/17 10:44

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-17

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 17:10	5
Arsenic	0.0034		0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 17:10	5
Barium	0.059		0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 17:10	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 17:10	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 17:10	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 17:10	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 17:10	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 17:10	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 17:10	5
Molybdenum	0.018		0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 17:10	5
Selenium	0.00042	I	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 17:10	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 17:10	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11		1.0	0.42	mg/L		01/09/17 08:25	01/12/17 17:23	100
Calcium	270		5.0	2.5	mg/L		01/09/17 08:25	01/12/17 17:23	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 16:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4200		50	34	mg/L			01/10/17 13:56	1
Chloride	2400		100	30	mg/L			01/10/17 13:45	50
Fluoride	0.040	I	0.10	0.032	mg/L			01/10/17 13:13	1
Sulfate	660		150	42	mg/L			01/10/17 17:03	30

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-2
Date Collected: 01/04/17 12:53
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 14:15	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:42	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337734	01/08/17 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	338123	01/11/17 10:20	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337852	01/09/17 15:05	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	338017	01/10/17 16:22	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	338824	01/04/17 12:53	BWS	TAL PEN

Client Sample ID: MW-3
Date Collected: 01/04/17 15:48
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 14:24	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:43	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337734	01/08/17 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	338123	01/11/17 10:20	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337852	01/09/17 15:20	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	338017	01/10/17 16:22	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	338824	01/04/17 15:48	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 01/05/17 16:36
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338250	01/12/17 13:16	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	338347	01/12/17 13:57	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL2		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	338347	01/12/17 14:20	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:44	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337734	01/08/17 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		60	338123	01/11/17 13:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337852	01/09/17 15:23	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	338017	01/10/17 16:49	BJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	338824	01/05/17 16:36	BWS	TAL PEN

Client Sample ID: MW-7

Lab Sample ID: 400-132315-4

Date Collected: 01/05/17 15:22

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 14:42	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	338347	01/12/17 15:41	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:46	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337734	01/08/17 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		30	338123	01/11/17 11:07	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337852	01/09/17 15:26	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	338017	01/10/17 16:49	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	338824	01/05/17 15:22	BWS	TAL PEN

Client Sample ID: MW-8

Lab Sample ID: 400-132315-5

Date Collected: 01/05/17 13:11

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 15:32	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	338347	01/12/17 15:45	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:47	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337734	01/08/17 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	338156	01/11/17 16:15	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 12:13	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	337976	01/10/17 14:08	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	338824	01/05/17 13:11	BWS	TAL PEN

Client Sample ID: MW-9

Lab Sample ID: 400-132315-6

Date Collected: 01/05/17 11:01

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 15:49	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	100	338347	01/12/17 16:03	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-9

Lab Sample ID: 400-132315-6

Date Collected: 01/05/17 11:01

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	337741	01/08/17 15:48	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337734	01/08/17 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		55	337970	01/10/17 14:06	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 12:22	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	337976	01/10/17 14:08	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	338824	01/05/17 11:01	BWS	TAL PEN

Client Sample ID: MW-10

Lab Sample ID: 400-132315-7

Date Collected: 01/05/17 08:43

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 15:54	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	338347	01/12/17 16:07	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:49	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337734	01/08/17 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	338156	01/11/17 16:15	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 12:26	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	337976	01/10/17 14:08	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	338824	01/05/17 08:43	BWS	TAL PEN

Client Sample ID: MW-11

Lab Sample ID: 400-132315-8

Date Collected: 01/05/17 07:55

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 16:12	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	25	338347	01/12/17 16:56	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:50	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337929	01/10/17 13:56	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	338156	01/11/17 16:15	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 12:29	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	338017	01/10/17 16:49	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	338824	01/05/17 07:55	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-12

Date Collected: 01/04/17 10:58

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 16:38	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:52	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337734	01/08/17 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		10	337970	01/10/17 11:01	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 12:31	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	337976	01/10/17 10:51	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	338824	01/04/17 10:58	BWS	TAL PEN

Client Sample ID: MW-13

Date Collected: 01/05/17 14:05

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 16:43	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	200	338347	01/12/17 17:14	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:53	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337929	01/10/17 13:56	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	338156	01/11/17 16:15	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 12:33	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		35	338017	01/10/17 17:14	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	338824	01/05/17 14:05	BWS	TAL PEN

Client Sample ID: MW-14

Date Collected: 01/05/17 11:44

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 16:47	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	100	338347	01/12/17 17:18	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 15:59	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337929	01/10/17 13:56	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		55	337970	01/10/17 14:09	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 13:01	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	338017	01/10/17 17:03	BJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: MW-14

Date Collected: 01/05/17 11:44

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	338824	01/05/17 11:44	BWS	TAL PEN

Client Sample ID: FB-01

Date Collected: 01/05/17 12:30

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 14:29	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 16:00	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337929	01/10/17 13:56	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	337970	01/10/17 12:10	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 12:36	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	338017	01/10/17 16:22	BJB	TAL PEN

Client Sample ID: EB-01

Date Collected: 01/05/17 14:15

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 14:33	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 16:01	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337929	01/10/17 13:56	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	337970	01/10/17 12:10	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 12:44	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	338017	01/10/17 16:24	BJB	TAL PEN

Client Sample ID: DUP-01

Date Collected: 01/04/17 11:53

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 16:52	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 16:02	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337734	01/08/17 13:36	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	337970	01/10/17 09:43	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 13:05	SLT	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: DUP-01

Date Collected: 01/04/17 11:53

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-14

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	338017	01/10/17 16:24	BJB	TAL PEN

Client Sample ID: FB-02

Date Collected: 01/05/17 14:50

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 17:05	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 16:04	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337929	01/10/17 13:56	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	337970	01/10/17 12:10	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 13:08	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	338017	01/10/17 16:25	BJB	TAL PEN

Client Sample ID: EB-02

Date Collected: 01/05/17 16:50

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 14:38	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 16:05	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337929	01/10/17 13:56	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	337970	01/10/17 12:10	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 13:11	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	338017	01/10/17 16:25	BJB	TAL PEN

Client Sample ID: DUP-02

Date Collected: 01/05/17 10:44

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020		5	338347	01/12/17 17:10	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		337670	01/09/17 08:25	RJB	TAL PEN
Total Recoverable	Analysis	6020	DL	100	338347	01/12/17 17:23	DRE	TAL PEN
Total/NA	Prep	7470A			337593	01/07/17 13:04	JAP	TAL PEN
Total/NA	Analysis	7470A		1	337741	01/08/17 16:06	DN1	TAL PEN
Total/NA	Analysis	SM 2540C		1	337929	01/10/17 13:56	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Client Sample ID: DUP-02

Lab Sample ID: 400-132315-17

Date Collected: 01/05/17 10:44

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		50	337970	01/10/17 13:45	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	337952	01/10/17 13:13	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	338017	01/10/17 17:03	BJB	TAL PEN

Laboratory References:

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

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Metals

Prep Batch: 337593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total/NA	Water	7470A	
400-132315-2	MW-3	Total/NA	Water	7470A	
400-132315-3	MW-6	Total/NA	Water	7470A	
400-132315-4	MW-7	Total/NA	Water	7470A	
400-132315-5	MW-8	Total/NA	Water	7470A	
400-132315-6	MW-9	Total/NA	Water	7470A	
400-132315-7	MW-10	Total/NA	Water	7470A	
400-132315-8	MW-11	Total/NA	Water	7470A	
400-132315-9	MW-12	Total/NA	Water	7470A	
400-132315-10	MW-13	Total/NA	Water	7470A	
400-132315-11	MW-14	Total/NA	Water	7470A	
400-132315-12	FB-01	Total/NA	Water	7470A	
400-132315-13	EB-01	Total/NA	Water	7470A	
400-132315-14	DUP-01	Total/NA	Water	7470A	
400-132315-15	FB-02	Total/NA	Water	7470A	
400-132315-16	EB-02	Total/NA	Water	7470A	
400-132315-17	DUP-02	Total/NA	Water	7470A	
MB 400-337593/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-337593/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-132275-A-3-B MS	Matrix Spike	Total/NA	Water	7470A	
400-132275-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 337670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total Recoverable	Water	3005A	
400-132315-2	MW-3	Total Recoverable	Water	3005A	
400-132315-3 - DL2	MW-6	Total Recoverable	Water	3005A	
400-132315-3	MW-6	Total Recoverable	Water	3005A	
400-132315-3 - DL	MW-6	Total Recoverable	Water	3005A	
400-132315-4 - DL	MW-7	Total Recoverable	Water	3005A	
400-132315-4	MW-7	Total Recoverable	Water	3005A	
400-132315-5 - DL	MW-8	Total Recoverable	Water	3005A	
400-132315-5	MW-8	Total Recoverable	Water	3005A	
400-132315-6 - DL	MW-9	Total Recoverable	Water	3005A	
400-132315-6	MW-9	Total Recoverable	Water	3005A	
400-132315-7	MW-10	Total Recoverable	Water	3005A	
400-132315-7 - DL	MW-10	Total Recoverable	Water	3005A	
400-132315-8 - DL	MW-11	Total Recoverable	Water	3005A	
400-132315-8	MW-11	Total Recoverable	Water	3005A	
400-132315-9	MW-12	Total Recoverable	Water	3005A	
400-132315-10 - DL	MW-13	Total Recoverable	Water	3005A	
400-132315-10	MW-13	Total Recoverable	Water	3005A	
400-132315-11	MW-14	Total Recoverable	Water	3005A	
400-132315-11 - DL	MW-14	Total Recoverable	Water	3005A	
400-132315-12	FB-01	Total Recoverable	Water	3005A	
400-132315-13	EB-01	Total Recoverable	Water	3005A	
400-132315-14	DUP-01	Total Recoverable	Water	3005A	
400-132315-15	FB-02	Total Recoverable	Water	3005A	
400-132315-16	EB-02	Total Recoverable	Water	3005A	
400-132315-17 - DL	DUP-02	Total Recoverable	Water	3005A	
400-132315-17	DUP-02	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Metals (Continued)

Prep Batch: 337670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-337670/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-337670/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-132315-3 MS	MW-6	Total Recoverable	Water	3005A	
400-132315-3 MSD	MW-6	Total Recoverable	Water	3005A	

Analysis Batch: 337741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total/NA	Water	7470A	337593
400-132315-2	MW-3	Total/NA	Water	7470A	337593
400-132315-3	MW-6	Total/NA	Water	7470A	337593
400-132315-4	MW-7	Total/NA	Water	7470A	337593
400-132315-5	MW-8	Total/NA	Water	7470A	337593
400-132315-6	MW-9	Total/NA	Water	7470A	337593
400-132315-7	MW-10	Total/NA	Water	7470A	337593
400-132315-8	MW-11	Total/NA	Water	7470A	337593
400-132315-9	MW-12	Total/NA	Water	7470A	337593
400-132315-10	MW-13	Total/NA	Water	7470A	337593
400-132315-11	MW-14	Total/NA	Water	7470A	337593
400-132315-12	FB-01	Total/NA	Water	7470A	337593
400-132315-13	EB-01	Total/NA	Water	7470A	337593
400-132315-14	DUP-01	Total/NA	Water	7470A	337593
400-132315-15	FB-02	Total/NA	Water	7470A	337593
400-132315-16	EB-02	Total/NA	Water	7470A	337593
400-132315-17	DUP-02	Total/NA	Water	7470A	337593
MB 400-337593/14-A	Method Blank	Total/NA	Water	7470A	337593
LCS 400-337593/15-A	Lab Control Sample	Total/NA	Water	7470A	337593
400-132275-A-3-B MS	Matrix Spike	Total/NA	Water	7470A	337593
400-132275-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	337593

Analysis Batch: 338250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-3	MW-6	Total Recoverable	Water	6020	337670
MB 400-337670/1-A ^5	Method Blank	Total Recoverable	Water	6020	337670
LCS 400-337670/2-A	Lab Control Sample	Total Recoverable	Water	6020	337670

Analysis Batch: 338347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total Recoverable	Water	6020	337670
400-132315-2	MW-3	Total Recoverable	Water	6020	337670
400-132315-3 - DL	MW-6	Total Recoverable	Water	6020	337670
400-132315-3 - DL2	MW-6	Total Recoverable	Water	6020	337670
400-132315-4	MW-7	Total Recoverable	Water	6020	337670
400-132315-4 - DL	MW-7	Total Recoverable	Water	6020	337670
400-132315-5	MW-8	Total Recoverable	Water	6020	337670
400-132315-5 - DL	MW-8	Total Recoverable	Water	6020	337670
400-132315-6	MW-9	Total Recoverable	Water	6020	337670
400-132315-6 - DL	MW-9	Total Recoverable	Water	6020	337670
400-132315-7	MW-10	Total Recoverable	Water	6020	337670
400-132315-7 - DL	MW-10	Total Recoverable	Water	6020	337670
400-132315-8	MW-11	Total Recoverable	Water	6020	337670
400-132315-8 - DL	MW-11	Total Recoverable	Water	6020	337670

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Metals (Continued)

Analysis Batch: 338347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-9	MW-12	Total Recoverable	Water	6020	337670
400-132315-10	MW-13	Total Recoverable	Water	6020	337670
400-132315-10 - DL	MW-13	Total Recoverable	Water	6020	337670
400-132315-11	MW-14	Total Recoverable	Water	6020	337670
400-132315-11 - DL	MW-14	Total Recoverable	Water	6020	337670
400-132315-12	FB-01	Total Recoverable	Water	6020	337670
400-132315-13	EB-01	Total Recoverable	Water	6020	337670
400-132315-14	DUP-01	Total Recoverable	Water	6020	337670
400-132315-15	FB-02	Total Recoverable	Water	6020	337670
400-132315-16	EB-02	Total Recoverable	Water	6020	337670
400-132315-17	DUP-02	Total Recoverable	Water	6020	337670
400-132315-17 - DL	DUP-02	Total Recoverable	Water	6020	337670
MB 400-337670/1-A ^5	Method Blank	Total Recoverable	Water	6020	337670
LCS 400-337670/2-A	Lab Control Sample	Total Recoverable	Water	6020	337670
400-132315-3 MS	MW-6	Total Recoverable	Water	6020	337670
400-132315-3 MSD	MW-6	Total Recoverable	Water	6020	337670

General Chemistry

Analysis Batch: 337734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total/NA	Water	SM 2540C	
400-132315-2	MW-3	Total/NA	Water	SM 2540C	
400-132315-3	MW-6	Total/NA	Water	SM 2540C	
400-132315-4	MW-7	Total/NA	Water	SM 2540C	
400-132315-5	MW-8	Total/NA	Water	SM 2540C	
400-132315-6	MW-9	Total/NA	Water	SM 2540C	
400-132315-7	MW-10	Total/NA	Water	SM 2540C	
400-132315-9	MW-12	Total/NA	Water	SM 2540C	
400-132315-14	DUP-01	Total/NA	Water	SM 2540C	
MB 400-337734/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-337734/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-132315-1 DU	MW-2	Total/NA	Water	SM 2540C	
400-132315-2 DU	MW-3	Total/NA	Water	SM 2540C	

Analysis Batch: 337852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total/NA	Water	SM 4500 F C	
400-132315-2	MW-3	Total/NA	Water	SM 4500 F C	
400-132315-3	MW-6	Total/NA	Water	SM 4500 F C	
400-132315-4	MW-7	Total/NA	Water	SM 4500 F C	
MB 400-337852/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-337852/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-132269-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-132269-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 337929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-8	MW-11	Total/NA	Water	SM 2540C	
400-132315-10	MW-13	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

General Chemistry (Continued)

Analysis Batch: 337929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-11	MW-14	Total/NA	Water	SM 2540C	
400-132315-12	FB-01	Total/NA	Water	SM 2540C	
400-132315-13	EB-01	Total/NA	Water	SM 2540C	
400-132315-15	FB-02	Total/NA	Water	SM 2540C	
400-132315-16	EB-02	Total/NA	Water	SM 2540C	
400-132315-17	DUP-02	Total/NA	Water	SM 2540C	
MB 400-337929/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-337929/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-132409-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	
400-132409-A-6 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 337952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-5	MW-8	Total/NA	Water	SM 4500 F C	
400-132315-6	MW-9	Total/NA	Water	SM 4500 F C	
400-132315-7	MW-10	Total/NA	Water	SM 4500 F C	
400-132315-8	MW-11	Total/NA	Water	SM 4500 F C	
400-132315-9	MW-12	Total/NA	Water	SM 4500 F C	
400-132315-10	MW-13	Total/NA	Water	SM 4500 F C	
400-132315-11	MW-14	Total/NA	Water	SM 4500 F C	
400-132315-12	FB-01	Total/NA	Water	SM 4500 F C	
400-132315-13	EB-01	Total/NA	Water	SM 4500 F C	
400-132315-14	DUP-01	Total/NA	Water	SM 4500 F C	
400-132315-15	FB-02	Total/NA	Water	SM 4500 F C	
400-132315-16	EB-02	Total/NA	Water	SM 4500 F C	
400-132315-17	DUP-02	Total/NA	Water	SM 4500 F C	
MB 400-337952/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-337952/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-132315-5 MS	MW-8	Total/NA	Water	SM 4500 F C	
400-132315-5 MSD	MW-8	Total/NA	Water	SM 4500 F C	
400-132315-11 DU	MW-14	Total/NA	Water	SM 4500 F C	

Analysis Batch: 337970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-6	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-132315-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
400-132315-11	MW-14	Total/NA	Water	SM 4500 Cl- E	
400-132315-12	FB-01	Total/NA	Water	SM 4500 Cl- E	
400-132315-13	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-132315-14	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-132315-15	FB-02	Total/NA	Water	SM 4500 Cl- E	
400-132315-16	EB-02	Total/NA	Water	SM 4500 Cl- E	
400-132315-17	DUP-02	Total/NA	Water	SM 4500 Cl- E	
MB 400-337970/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-337970/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-337970/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-132362-B-3 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-132362-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

General Chemistry (Continued)

Analysis Batch: 337976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-5	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-132315-6	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-132315-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-132315-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 400-337976/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-337976/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-337976/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 338017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-132315-2	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-132315-3	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-132315-4	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-132315-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
400-132315-10	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-132315-11	MW-14	Total/NA	Water	SM 4500 SO4 E	
400-132315-12	FB-01	Total/NA	Water	SM 4500 SO4 E	
400-132315-13	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-132315-14	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-132315-15	FB-02	Total/NA	Water	SM 4500 SO4 E	
400-132315-16	EB-02	Total/NA	Water	SM 4500 SO4 E	
400-132315-17	DUP-02	Total/NA	Water	SM 4500 SO4 E	
MB 400-338017/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-338017/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-338017/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-132315-2 MS	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-132315-2 MSD	MW-3	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 338123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total/NA	Water	SM 4500 CI- E	
400-132315-2	MW-3	Total/NA	Water	SM 4500 CI- E	
400-132315-3	MW-6	Total/NA	Water	SM 4500 CI- E	
400-132315-4	MW-7	Total/NA	Water	SM 4500 CI- E	
MB 400-338123/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-338123/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-338123/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-132409-A-4 MS	Matrix Spike	Total/NA	Water	SM 4500 CI- E	
400-132409-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 338156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-5	MW-8	Total/NA	Water	SM 4500 CI- E	
400-132315-7	MW-10	Total/NA	Water	SM 4500 CI- E	
400-132315-8	MW-11	Total/NA	Water	SM 4500 CI- E	
400-132315-10	MW-13	Total/NA	Water	SM 4500 CI- E	
MB 400-338156/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 400-338156/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MRL 400-338156/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
400-132447-C-1 MS	Matrix Spike	Total/NA	Water	SM 4500 CI- E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

General Chemistry (Continued)

Analysis Batch: 338156 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132447-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Field Service / Mobile Lab

Analysis Batch: 338824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total/NA	Water	Field Sampling	
400-132315-2	MW-3	Total/NA	Water	Field Sampling	
400-132315-3	MW-6	Total/NA	Water	Field Sampling	
400-132315-4	MW-7	Total/NA	Water	Field Sampling	
400-132315-5	MW-8	Total/NA	Water	Field Sampling	
400-132315-6	MW-9	Total/NA	Water	Field Sampling	
400-132315-7	MW-10	Total/NA	Water	Field Sampling	
400-132315-8	MW-11	Total/NA	Water	Field Sampling	
400-132315-9	MW-12	Total/NA	Water	Field Sampling	
400-132315-10	MW-13	Total/NA	Water	Field Sampling	
400-132315-11	MW-14	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-337670/1-A ^5
Matrix: Water
Analysis Batch: 338250

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 337670

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 13:07	5
Antimony	0.0010	U	0.0025	0.0010	mg/L		01/09/17 08:25	01/12/17 13:07	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 13:07	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		01/09/17 08:25	01/12/17 13:07	5
Barium	0.00049	U	0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 13:07	5
Barium	0.00049	U	0.0025	0.00049	mg/L		01/09/17 08:25	01/12/17 13:07	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 13:07	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 13:07	5
Boron	0.021	U	0.050	0.021	mg/L		01/09/17 08:25	01/12/17 13:07	5
Boron	0.021	U	0.050	0.021	mg/L		01/09/17 08:25	01/12/17 13:07	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 13:07	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		01/09/17 08:25	01/12/17 13:07	5
Calcium	0.13	U	0.25	0.13	mg/L		01/09/17 08:25	01/12/17 13:07	5
Calcium	0.13	U	0.25	0.13	mg/L		01/09/17 08:25	01/12/17 13:07	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 13:07	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		01/09/17 08:25	01/12/17 13:07	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 13:07	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		01/09/17 08:25	01/12/17 13:07	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 13:07	5
Lead	0.00035	U	0.0013	0.00035	mg/L		01/09/17 08:25	01/12/17 13:07	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 13:07	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		01/09/17 08:25	01/12/17 13:07	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 13:07	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		01/09/17 08:25	01/12/17 13:07	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 13:07	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		01/09/17 08:25	01/12/17 13:07	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 13:07	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		01/09/17 08:25	01/12/17 13:07	5

Lab Sample ID: LCS 400-337670/2-A
Matrix: Water
Analysis Batch: 338250

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 337670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0508		mg/L		102	80 - 120
Antimony	0.0500	0.0508		mg/L		102	80 - 120
Arsenic	0.0500	0.0507		mg/L		101	80 - 120
Arsenic	0.0500	0.0507		mg/L		101	80 - 120
Barium	0.0500	0.0498		mg/L		100	80 - 120
Barium	0.0500	0.0498		mg/L		100	80 - 120
Beryllium	0.0500	0.0500		mg/L		100	80 - 120
Beryllium	0.0500	0.0500		mg/L		100	80 - 120
Boron	0.100	0.0950		mg/L		95	80 - 120
Boron	0.100	0.0950		mg/L		95	80 - 120
Cadmium	0.0500	0.0500		mg/L		100	80 - 120
Cadmium	0.0500	0.0500		mg/L		100	80 - 120
Calcium	5.00	4.80		mg/L		96	80 - 120
Calcium	5.00	4.80		mg/L		96	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

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

Lab Sample ID: LCS 400-337670/2-A
Matrix: Water
Analysis Batch: 338250

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 337670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.0500	0.0497		mg/L		99	80 - 120
Chromium	0.0500	0.0497		mg/L		99	80 - 120
Cobalt	0.0500	0.0500		mg/L		100	80 - 120
Cobalt	0.0500	0.0500		mg/L		100	80 - 120
Lead	0.0500	0.0493		mg/L		99	80 - 120
Lead	0.0500	0.0493		mg/L		99	80 - 120
Lithium	0.0500	0.0523		mg/L		105	80 - 120
Lithium	0.0500	0.0523		mg/L		105	80 - 120
Molybdenum	0.100	0.0971		mg/L		97	80 - 120
Molybdenum	0.100	0.0971		mg/L		97	80 - 120
Selenium	0.0500	0.0500		mg/L		100	80 - 120
Selenium	0.0500	0.0500		mg/L		100	80 - 120
Thallium	0.0100	0.0100		mg/L		100	80 - 120
Thallium	0.0100	0.0100		mg/L		100	80 - 120

Lab Sample ID: 400-132315-3 MS
Matrix: Water
Analysis Batch: 338347

Client Sample ID: MW-6
Prep Type: Total Recoverable
Prep Batch: 337670

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0050	U	0.0500	0.0482		mg/L		96	75 - 125
Arsenic	0.0023	U	0.0500	0.0551		mg/L		110	75 - 125
Barium	0.074		0.0500	0.125		mg/L		103	75 - 125
Beryllium	0.0017	U	0.0500	0.0523		mg/L		105	75 - 125
Boron	9.8		0.100	9.87		mg/L		84	75 - 125
Cadmium	0.0017	U	0.0500	0.0505		mg/L		101	75 - 125
Calcium	240		5.00	244		mg/L		117	75 - 125
Chromium	0.0055	U	0.0500	0.0517		mg/L		103	75 - 125
Cobalt	0.0020	U	0.0500	0.0502		mg/L		100	75 - 125
Lead	0.0018	U	0.0500	0.0493		mg/L		99	75 - 125
Lithium	0.016	U	0.0500	0.0511		mg/L		102	75 - 125
Molybdenum	0.0043	U	0.100	0.102		mg/L		102	75 - 125
Selenium	0.0012	U	0.0500	0.0114	J3	mg/L		23	75 - 125
Thallium	0.00043	U	0.0100	0.0103		mg/L		103	75 - 125

Lab Sample ID: 400-132315-3 MSD
Matrix: Water
Analysis Batch: 338347

Client Sample ID: MW-6
Prep Type: Total Recoverable
Prep Batch: 337670

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	0.0050	U	0.0500	0.0473		mg/L		95	75 - 125	2	20
Arsenic	0.0023	U	0.0500	0.0549		mg/L		110	75 - 125	0	20
Barium	0.074		0.0500	0.123		mg/L		100	75 - 125	2	20
Beryllium	0.0017	U	0.0500	0.0529		mg/L		106	75 - 125	1	20
Boron	9.8		0.100	9.90		mg/L		115	75 - 125	0	20
Cadmium	0.0017	U	0.0500	0.0509		mg/L		102	75 - 125	1	20
Calcium	240		5.00	242		mg/L		81	75 - 125	1	20
Chromium	0.0055	U	0.0500	0.0504		mg/L		101	75 - 125	2	20
Cobalt	0.0020	U	0.0500	0.0499		mg/L		100	75 - 125	1	20

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

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

Lab Sample ID: 400-132315-3 MSD
Matrix: Water
Analysis Batch: 338347

Client Sample ID: MW-6
Prep Type: Total Recoverable
Prep Batch: 337670

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Lead	0.0018	U	0.0500	0.0497		mg/L		99	75 - 125	1	20
Lithium	0.016	U	0.0500	0.0571		mg/L		114	75 - 125	11	20
Molybdenum	0.0043	U	0.100	0.0983		mg/L		98	75 - 125	4	20
Selenium	0.0012	U	0.0500	0.0113	J3	mg/L		23	75 - 125	1	20
Thallium	0.00043	U	0.0100	0.00990		mg/L		99	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-337593/14-A
Matrix: Water
Analysis Batch: 337741

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337593

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.000070	U	0.00020	0.000070	mg/L		01/07/17 13:04	01/08/17 15:18	1

Lab Sample ID: LCS 400-337593/15-A
Matrix: Water
Analysis Batch: 337741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337593

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00101	0.000943		mg/L		94	80 - 120

Lab Sample ID: 400-132275-A-3-B MS
Matrix: Water
Analysis Batch: 337741

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 337593

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Mercury	0.000070	U	0.00201	0.00187		mg/L		93	80 - 120	

Lab Sample ID: 400-132275-A-3-C MSD
Matrix: Water
Analysis Batch: 337741

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 337593

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Mercury	0.000070	U	0.00201	0.00184		mg/L		91	80 - 120	2	20

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

Lab Sample ID: MB 400-337734/1
Matrix: Water
Analysis Batch: 337734

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

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			01/08/17 13:36	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

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

Lab Sample ID: LCS 400-337734/2
Matrix: Water
Analysis Batch: 337734

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	252		mg/L		86	78 - 122

Lab Sample ID: 400-132315-1 DU
Matrix: Water
Analysis Batch: 337734

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	140		142		mg/L		0	5

Lab Sample ID: 400-132315-2 DU
Matrix: Water
Analysis Batch: 337734

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	44		44.0		mg/L		0	5

Lab Sample ID: MB 400-337929/1
Matrix: Water
Analysis Batch: 337929

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			01/10/17 13:56	1

Lab Sample ID: LCS 400-337929/2
Matrix: Water
Analysis Batch: 337929

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: 400-132409-A-2 DU
Matrix: Water
Analysis Batch: 337929

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	3.4	U	3.4	U	mg/L		NC	5

Lab Sample ID: 400-132409-A-6 DU
Matrix: Water
Analysis Batch: 337929

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	6.0		6.00		mg/L		0	5

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-337970/6
Matrix: Water
Analysis Batch: 337970

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			01/10/17 08:40	1

Lab Sample ID: LCS 400-337970/7
Matrix: Water
Analysis Batch: 337970

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 400-337970/3
Matrix: Water
Analysis Batch: 337970

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	2.21		mg/L		110	50 - 150

Lab Sample ID: 400-132362-B-3 MS
Matrix: Water
Analysis Batch: 337970

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	25		10.0	34.8		mg/L		101	73 - 120

Lab Sample ID: 400-132362-B-3 MSD
Matrix: Water
Analysis Batch: 337970

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	25		10.0	34.0		mg/L		93	73 - 120	2	8

Lab Sample ID: MB 400-338123/6
Matrix: Water
Analysis Batch: 338123

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			01/11/17 09:54	1

Lab Sample ID: LCS 400-338123/7
Matrix: Water
Analysis Batch: 338123

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	31.9		mg/L		106	90 - 110

Lab Sample ID: MRL 400-338123/3
Matrix: Water
Analysis Batch: 338123

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	2.35		mg/L		117	50 - 150

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Lab Sample ID: 400-132409-A-4 MS
Matrix: Water
Analysis Batch: 338123

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	5.3		10.0	17.2		mg/L		118	73 - 120

Lab Sample ID: 400-132409-A-4 MSD
Matrix: Water
Analysis Batch: 338123

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	5.3		10.0	15.4	J3	mg/L		101	73 - 120	11	8

Lab Sample ID: MB 400-338156/6
Matrix: Water
Analysis Batch: 338156

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			01/11/17 14:37	1

Lab Sample ID: LCS 400-338156/7
Matrix: Water
Analysis Batch: 338156

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	31.1		mg/L		104	90 - 110

Lab Sample ID: MRL 400-338156/3
Matrix: Water
Analysis Batch: 338156

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	2.10		mg/L		105	50 - 150

Lab Sample ID: 400-132447-C-1 MS
Matrix: Water
Analysis Batch: 338156

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	49		10.0	56.0		mg/L		74	73 - 120

Lab Sample ID: 400-132447-C-1 MSD
Matrix: Water
Analysis Batch: 338156

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	49		10.0	55.5	J3	mg/L		69	73 - 120	1	8

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-337852/3
Matrix: Water
Analysis Batch: 337852

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			01/09/17 14:43	1

Lab Sample ID: LCS 400-337852/4
Matrix: Water
Analysis Batch: 337852

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	4.04		mg/L		101	90 - 110

Lab Sample ID: 400-132269-A-1 MS
Matrix: Water
Analysis Batch: 337852

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	0.090	I	1.00	1.02		mg/L		93	75 - 125

Lab Sample ID: 400-132269-A-1 MSD
Matrix: Water
Analysis Batch: 337852

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	0.090	I	1.00	1.00		mg/L		91	75 - 125	2	4

Lab Sample ID: MB 400-337952/3
Matrix: Water
Analysis Batch: 337952

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			01/10/17 12:04	1

Lab Sample ID: LCS 400-337952/4
Matrix: Water
Analysis Batch: 337952

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: 400-132315-5 MS
Matrix: Water
Analysis Batch: 337952

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
Fluoride	0.032	U	1.00	0.600	J3	mg/L		60	75 - 125

Lab Sample ID: 400-132315-5 MSD
Matrix: Water
Analysis Batch: 337952

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
Fluoride	0.032	U	1.00	0.590	J3	mg/L		59	75 - 125	2	4

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

Lab Sample ID: 400-132315-11 DU
Matrix: Water
Analysis Batch: 337952

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Fluoride	0.040	I	0.0500	I J3	mg/L		22	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-337976/6
Matrix: Water
Analysis Batch: 337976

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 08:42	1

Lab Sample ID: LCS 400-337976/7
Matrix: Water
Analysis Batch: 337976

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	15.5		mg/L		104	90 - 110

Lab Sample ID: MRL 400-337976/3
Matrix: Water
Analysis Batch: 337976

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	4.52	I	mg/L		90	50 - 150

Lab Sample ID: MB 400-338017/6
Matrix: Water
Analysis Batch: 338017

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			01/10/17 15:58	1

Lab Sample ID: LCS 400-338017/7
Matrix: Water
Analysis Batch: 338017

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		100	90 - 110

Lab Sample ID: MRL 400-338017/3
Matrix: Water
Analysis Batch: 338017

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	4.40	I	mg/L		88	50 - 150

QC Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

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

Lab Sample ID: 400-132315-2 MS
 Matrix: Water
 Analysis Batch: 338017

Client Sample ID: MW-3
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.4	U	10.0	1.4	U J3	mg/L		0	77 - 128

Lab Sample ID: 400-132315-2 MSD
 Matrix: Water
 Analysis Batch: 338017

Client Sample ID: MW-3
 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	U	10.0	1.4	U J3	mg/L		0	77 - 128	NC	5

Chain of Custody Record

Client Information		Lab P/W: Whitmire, Cheyenne R.		Carrier Tracking No(s): 400-53432-23565.1															
Client Contact: Kristi Mitchell		E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 2															
Company: Gulf Power Company		Address: BIN 731 One Energy Place		Job #:															
City: Pensacola		State, Zip: FL, 32520		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Z - other (Specify) Other:															
Phone: 850-444-6427(Tel)		PO #: Purchase Order not required		Analysis Requested															
Email: krmitch@southernco.com		WO #:		Field Sampling - Field Sampling Parameters															
Project Name: CCR Smith Plant		Project #: 40006609		Total Number of Containers															
Site:		SSOW#:		Special Instructions (Note):															
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, RT=Residue, As=Asp)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D	N	D	N	D	N	D	N	D	N		
MW-2		1/4/17	1253	G	Water			X		X		X		X		X			
MW-3		1/4/17	1548		Water														
MW-6		1/5/17	1636		Water														
MW-7		1/5/17	1522		Water														
MW-8		1/5/17	1311		Water														
MW-9		1/5/17	1101		Water														
MW-10		1/5/17	0843		Water														
MW-11		1/5/17	0755		Water														
MW-12		1/4/17	1058		Water														
MW-13		1/5/17	1405		Water														
MW-14		1/5/17	1144	G	Water			X		X		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		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)		Empty Kit Relinquished by: <i>[Signature]</i>		Date: 1/6/17		Company: <i>[Signature]</i>		Time: 0822		Method of Shipment: <i>[Signature]</i>		Date/Time: 1/16/17 0822		Company: <i>[Signature]</i>		Date/Time: 1/16/17 0822		Company: <i>[Signature]</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: 1/6/17		Company: <i>[Signature]</i>		Date/Time: 0822		Company: <i>[Signature]</i>		Date/Time: 1/6/17 0822		Company: <i>[Signature]</i>		Date/Time: 1/16/17 0822		Company: <i>[Signature]</i>		Date/Time: 1/16/17 0822	
Relinquished by: <i>[Signature]</i>		Date/Time: 1/6/17		Company: <i>[Signature]</i>		Date/Time: 0822		Company: <i>[Signature]</i>		Date/Time: 1/6/17 0822		Company: <i>[Signature]</i>		Date/Time: 1/16/17 0822		Company: <i>[Signature]</i>		Date/Time: 1/16/17 0822	
Relinquished by: <i>[Signature]</i>		Date/Time: 1/6/17		Company: <i>[Signature]</i>		Date/Time: 0822		Company: <i>[Signature]</i>		Date/Time: 1/6/17 0822		Company: <i>[Signature]</i>		Date/Time: 1/16/17 0822		Company: <i>[Signature]</i>		Date/Time: 1/16/17 0822	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 4.3.186/14.59186/3.79.126/3.99.126		Cooler Temperature(s) °C and Other Remarks: 3.9°C															



Chain of Custody Record

Client Information
 Client Contact: Kristi Mitchell
 Company: Gulf Power Company
 Address: BIN 731 One Energy Place
 City: Pensacola
 State, Zip: FL, 32520
 Phone: 850-444-6427 (Tel)
 Email: krmitch@southernco.com
 Project Name: CCR Smith Plant
 Site:

Sampler: Brett Suckles
 Lab P.M.: Whitmore, Cheyenne R
 Phone: 850 380 3458
 E-Mail: cheyenne.whitmore@testamericainc.com

Carrier Tracking No(s):
 COC No: 400-53432-23565.2
 Page: Page 2 of 2
 Job #:

Analysis Requested

Due Date Requested:
 TAT Requested (days):
 PO #:
 Purchase Order not required
 WO #:
 Project #:
 40006609
 SSOW #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=refuse, AS=air)	Field Filtered Sample (Yes or No)		Form MS/MSD (Yes or No)		Field Sampling - Field Sampling Parameters		Total Number of Containers	Special Instructions/Note:
					D	N	D	N	D	N		
FB-01	11/5/17	1230	G	Water					X	X		
EB-01	11/5/17	1415		Water					X	X		
DUP-01	11/4/17	1153		Water					X	X		
FB-02	11/5/17	1450		Water					X	X		
EB-02	11/5/17	1650		Water					X	X		
DUP-02	11/5/17	1644	G	Water					X	X		
				Water								
				Water								

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Unknown Radiological Poison B

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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *[Signature]* Date/Time: 11/6/17 0822 Company: *[Signature]*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

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

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)



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-132315-1

Login Number: 132315

List Source: TestAmerica Pensacola

List Number: 1

Creator: Siddoway, Benjamin

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	4.3°C, 4.5°C, 3.7°C, 3.9°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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-1

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: 400-132315-2

Client Project/Site: CCR Smith Plant

For:

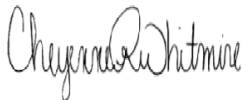
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

2/3/2017 5:02:07 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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Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

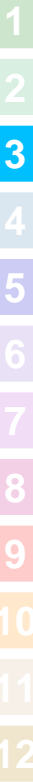
Method	Method Description	Protocol	Laboratory
9315	Radium-226 (GFPC)	SW846	TAL SL
9320	Radium-228 (GFPC)	SW846	TAL SL
Ra226_Ra228	Combined Radium-226 and Radium-228	TAL-STL	TAL SL

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-132315-1	MW-2	Water	01/04/17 12:53	01/06/17 08:22
400-132315-2	MW-3	Water	01/04/17 15:48	01/06/17 08:22
400-132315-3	MW-6	Water	01/05/17 16:36	01/06/17 08:22
400-132315-4	MW-7	Water	01/05/17 15:22	01/06/17 08:22
400-132315-5	MW-8	Water	01/05/17 13:11	01/06/17 08:22
400-132315-6	MW-9	Water	01/05/17 11:01	01/06/17 08:22
400-132315-7	MW-10	Water	01/05/17 08:43	01/06/17 08:22
400-132315-8	MW-11	Water	01/05/17 07:55	01/06/17 08:22
400-132315-9	MW-12	Water	01/04/17 10:58	01/06/17 08:22
400-132315-10	MW-13	Water	01/05/17 14:05	01/06/17 08:22
400-132315-11	MW-14	Water	01/05/17 11:44	01/06/17 08:22
400-132315-12	FB-01	Water	01/05/17 12:30	01/06/17 08:22
400-132315-13	EB-01	Water	01/05/17 14:15	01/06/17 08:22
400-132315-14	DUP-01	Water	01/04/17 11:53	01/06/17 08:22
400-132315-15	FB-02	Water	01/05/17 14:50	01/06/17 08:22
400-132315-16	EB-02	Water	01/05/17 16:50	01/06/17 08:22
400-132315-17	DUP-02	Water	01/05/17 10:44	01/06/17 08:22

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-2
Date Collected: 01/04/17 12:53
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-1
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	1.29		0.386	0.403	1.00	0.368	pCi/L	01/11/17 11:56	02/02/17 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		40 - 110					01/11/17 11:56	02/02/17 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.506		0.250	0.254	1.00	0.364	pCi/L	01/11/17 12:19	02/02/17 10:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		40 - 110					01/11/17 12:19	02/02/17 10:55	1
Y Carrier	87.5		40 - 110					01/11/17 12:19	02/02/17 10:55	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	1.79		0.460	0.477	5.00	0.368	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-3
Date Collected: 01/04/17 15:48
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-2
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	1.11		0.368	0.381	1.00	0.364	pCi/L	01/11/17 11:56	02/02/17 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					01/11/17 11:56	02/02/17 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.637		0.248	0.255	1.00	0.340	pCi/L	01/11/17 12:19	02/02/17 10:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					01/11/17 12:19	02/02/17 10:56	1
Y Carrier	89.7		40 - 110					01/11/17 12:19	02/02/17 10:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.75		0.444	0.458	5.00	0.364	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-6
Date Collected: 01/05/17 16:36
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-3
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	11.1		1.14	1.51	1.00	0.465	pCi/L	01/11/17 11:56	02/02/17 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.2		40 - 110					01/11/17 11:56	02/02/17 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	14.0		0.894	1.57	1.00	0.457	pCi/L	01/11/17 12:19	02/02/17 10:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.2		40 - 110					01/11/17 12:19	02/02/17 10:56	1
Y Carrier	90.1		40 - 110					01/11/17 12:19	02/02/17 10:56	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	25.1		1.45	2.18	5.00	0.465	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-7
Date Collected: 01/05/17 15:22
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-4
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	21.6		1.41	2.40	1.00	0.316	pCi/L	01/11/17 11:56	02/02/17 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					01/11/17 11:56	02/02/17 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.74		0.525	0.745	1.00	0.356	pCi/L	01/11/17 12:19	02/02/17 10:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.3		40 - 110					01/11/17 12:19	02/02/17 10:56	1
Y Carrier	87.5		40 - 110					01/11/17 12:19	02/02/17 10:56	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	27.4		1.50	2.51	5.00	0.356	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-8
Date Collected: 01/05/17 13:11
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-5
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	19.7		1.35	2.22	1.00	0.335	pCi/L	01/11/17 11:56	02/02/17 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					01/11/17 11:56	02/02/17 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	28.3		1.11	2.83	1.00	0.401	pCi/L	01/11/17 12:19	02/02/17 10:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		40 - 110					01/11/17 12:19	02/02/17 10:56	1
Y Carrier	84.1		40 - 110					01/11/17 12:19	02/02/17 10:56	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	48.0		1.75	3.60	5.00	0.401	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-9
Date Collected: 01/05/17 11:01
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-6
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	15.6		1.25	1.88	1.00	0.320	pCi/L	01/11/17 11:56	02/02/17 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					01/11/17 11:56	02/02/17 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	14.0		0.893	1.57	1.00	0.490	pCi/L	01/11/17 12:19	02/02/17 10:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.9		40 - 110					01/11/17 12:19	02/02/17 10:56	1
Y Carrier	74.0		40 - 110					01/11/17 12:19	02/02/17 10:56	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	29.6		1.53	2.45	5.00	0.490	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-10
Date Collected: 01/05/17 08:43
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-7
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	9.22		0.973	1.28	1.00	0.367	pCi/L	01/11/17 11:56	02/02/17 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.2		40 - 110					01/11/17 11:56	02/02/17 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	19.9		0.991	2.08	1.00	0.388	pCi/L	01/11/17 12:19	02/02/17 10:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.2		40 - 110					01/11/17 12:19	02/02/17 10:56	1
Y Carrier	88.6		40 - 110					01/11/17 12:19	02/02/17 10:56	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	29.2		1.39	2.45	5.00	0.388	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-11

Date Collected: 01/05/17 07:55

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-8

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	24.2		1.59	2.70	1.00	0.404	pCi/L	01/11/17 11:56	02/02/17 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		40 - 110					01/11/17 11:56	02/02/17 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	8.77		0.737	1.09	1.00	0.515	pCi/L	01/11/17 12:19	02/02/17 10:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		40 - 110					01/11/17 12:19	02/02/17 10:58	1
Y Carrier	82.2		40 - 110					01/11/17 12:19	02/02/17 10:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	33.0		1.76	2.91	5.00	0.515	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-12
Date Collected: 01/04/17 10:58
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-9
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	1.44		0.383	0.404	1.00	0.294	pCi/L	01/11/17 11:56	02/02/17 22:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					01/11/17 11:56	02/02/17 22:06	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.25		0.366	0.384	1.00	0.472	pCi/L	01/11/17 12:19	02/02/17 10:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					01/11/17 12:19	02/02/17 10:58	1
Y Carrier	76.6		40 - 110					01/11/17 12:19	02/02/17 10:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.69		0.530	0.557	5.00	0.472	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-13
Date Collected: 01/05/17 14:05
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-10
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	5.52		0.775	0.920	1.00	0.377	pCi/L	01/11/17 11:56	02/02/17 22:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		40 - 110					01/11/17 11:56	02/02/17 22:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	8.27		0.697	1.03	1.00	0.499	pCi/L	01/11/17 12:19	02/02/17 10:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.6		40 - 110					01/11/17 12:19	02/02/17 10:58	1
Y Carrier	85.6		40 - 110					01/11/17 12:19	02/02/17 10:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	13.8		1.04	1.38	5.00	0.499	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-14
Date Collected: 01/05/17 11:44
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-11
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	4.08		0.682	0.775	1.00	0.393	pCi/L	01/11/17 11:56	02/02/17 22:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.2		40 - 110					01/11/17 11:56	02/02/17 22:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.80		0.593	0.798	1.00	0.441	pCi/L	01/11/17 12:19	02/02/17 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.2		40 - 110					01/11/17 12:19	02/02/17 10:59	1
Y Carrier	88.6		40 - 110					01/11/17 12:19	02/02/17 10:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	9.88		0.904	1.11	5.00	0.441	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: FB-01
Date Collected: 01/05/17 12:30
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-12
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	0.0547	U	0.179	0.179	1.00	0.343	pCi/L	01/11/17 11:56	02/02/17 22:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					01/11/17 11:56	02/02/17 22:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0264	U	0.208	0.208	1.00	0.371	pCi/L	01/11/17 12:19	02/02/17 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.2		40 - 110					01/11/17 12:19	02/02/17 10:59	1
Y Carrier	86.7		40 - 110					01/11/17 12:19	02/02/17 10:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0811	U	0.275	0.275	5.00	0.371	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: EB-01
Date Collected: 01/05/17 14:15
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-13
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	-0.0144	U	0.143	0.143	1.00	0.315	pCi/L	01/11/17 11:56	02/02/17 22:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					01/11/17 11:56	02/02/17 22:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.118	U	0.202	0.202	1.00	0.343	pCi/L	01/11/17 12:19	02/02/17 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					01/11/17 12:19	02/02/17 10:59	1
Y Carrier	88.2		40 - 110					01/11/17 12:19	02/02/17 10:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.103	U	0.247	0.248	5.00	0.343	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: DUP-01

Date Collected: 01/04/17 11:53

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-14

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	1.09		0.377	0.390	1.00	0.388	pCi/L	01/11/17 11:56	02/02/17 22:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					01/11/17 11:56	02/02/17 22:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.284	U	0.244	0.246	1.00	0.391	pCi/L	01/11/17 12:19	02/02/17 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		40 - 110					01/11/17 12:19	02/02/17 10:59	1
Y Carrier	87.9		40 - 110					01/11/17 12:19	02/02/17 10:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.38		0.449	0.461	5.00	0.391	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: FB-02
Date Collected: 01/05/17 14:50
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-15
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.211	U	0.243	0.244	1.00	0.395	pCi/L	01/11/17 11:56	02/02/17 22:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					01/11/17 11:56	02/02/17 22:41	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.127	U	0.253	0.253	1.00	0.432	pCi/L	01/11/17 12:19	02/02/17 10:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					01/11/17 12:19	02/02/17 10:59	1
Y Carrier	84.5		40 - 110					01/11/17 12:19	02/02/17 10:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.338	U	0.351	0.352	5.00	0.432	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: EB-02
Date Collected: 01/05/17 16:50
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-16
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0862	U	0.211	0.211	1.00	0.385	pCi/L	01/11/17 11:56	02/02/17 22:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					01/11/17 11:56	02/02/17 22:42	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.317	U	0.230	0.232	1.00	0.358	pCi/L	01/11/17 12:19	02/02/17 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110					01/11/17 12:19	02/02/17 11:00	1
Y Carrier	87.9		40 - 110					01/11/17 12:19	02/02/17 11:00	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	0.403		0.312	0.314	5.00	0.385	pCi/L		02/03/17 15:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: DUP-02

Date Collected: 01/05/17 10:44

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-17

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	5.48		0.701	0.857	1.00	0.307	pCi/L	01/11/17 11:56	02/03/17 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					01/11/17 11:56	02/03/17 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	5.22		0.534	0.718	1.00	0.361	pCi/L	01/11/17 12:19	02/02/17 11:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.3		40 - 110					01/11/17 12:19	02/02/17 11:00	1
Y Carrier	89.0		40 - 110					01/11/17 12:19	02/02/17 11:00	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	10.7		0.881	1.12	5.00	0.361	pCi/L		02/03/17 15:36	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-2
Date Collected: 01/04/17 12:53
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290832	02/02/17 22:06	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290744	02/02/17 10:55	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: MW-3
Date Collected: 01/04/17 15:48
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290832	02/02/17 22:06	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290744	02/02/17 10:56	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: MW-6
Date Collected: 01/05/17 16:36
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290832	02/02/17 22:06	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290744	02/02/17 10:56	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: MW-7
Date Collected: 01/05/17 15:22
Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290832	02/02/17 22:06	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290744	02/02/17 10:56	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-8

Date Collected: 01/05/17 13:11

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290832	02/02/17 22:06	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290744	02/02/17 10:56	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: MW-9

Date Collected: 01/05/17 11:01

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290832	02/02/17 22:06	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290744	02/02/17 10:56	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: MW-10

Date Collected: 01/05/17 08:43

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290832	02/02/17 22:06	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290744	02/02/17 10:56	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: MW-11

Date Collected: 01/05/17 07:55

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290832	02/02/17 22:06	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 10:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: MW-12

Date Collected: 01/04/17 10:58

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290832	02/02/17 22:06	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 10:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: MW-13

Date Collected: 01/05/17 14:05

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290745	02/02/17 22:41	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 10:58	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: MW-14

Date Collected: 01/05/17 11:44

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290745	02/02/17 22:41	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 10:59	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: FB-01

Date Collected: 01/05/17 12:30

Date Received: 01/06/17 08:22

Lab Sample ID: 400-132315-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290745	02/02/17 22:41	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 10:59	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: EB-01

Lab Sample ID: 400-132315-13

Date Collected: 01/05/17 14:15

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290745	02/02/17 22:41	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 10:59	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: DUP-01

Lab Sample ID: 400-132315-14

Date Collected: 01/04/17 11:53

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290745	02/02/17 22:41	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 10:59	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: FB-02

Lab Sample ID: 400-132315-15

Date Collected: 01/05/17 14:50

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290745	02/02/17 22:41	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 10:59	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Client Sample ID: EB-02

Lab Sample ID: 400-132315-16

Date Collected: 01/05/17 16:50

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290745	02/02/17 22:42	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 11:00	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Client Sample ID: DUP-02

Lab Sample ID: 400-132315-17

Date Collected: 01/05/17 10:44

Matrix: Water

Date Received: 01/06/17 08:22

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			287462	01/11/17 11:56	AS	TAL SL
Total/NA	Analysis	9315		1	290910	02/03/17 07:01	ALD	TAL SL
Total/NA	Prep	PrecSep_0			287466	01/11/17 12:19	AS	TAL SL
Total/NA	Analysis	9320		1	290832	02/02/17 11:00	ALD	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	290956	02/03/17 15:36	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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Rad

Prep Batch: 287462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total/NA	Water	PrecSep-21	
400-132315-2	MW-3	Total/NA	Water	PrecSep-21	
400-132315-3	MW-6	Total/NA	Water	PrecSep-21	
400-132315-4	MW-7	Total/NA	Water	PrecSep-21	
400-132315-5	MW-8	Total/NA	Water	PrecSep-21	
400-132315-6	MW-9	Total/NA	Water	PrecSep-21	
400-132315-7	MW-10	Total/NA	Water	PrecSep-21	
400-132315-8	MW-11	Total/NA	Water	PrecSep-21	
400-132315-9	MW-12	Total/NA	Water	PrecSep-21	
400-132315-10	MW-13	Total/NA	Water	PrecSep-21	
400-132315-11	MW-14	Total/NA	Water	PrecSep-21	
400-132315-12	FB-01	Total/NA	Water	PrecSep-21	
400-132315-13	EB-01	Total/NA	Water	PrecSep-21	
400-132315-14	DUP-01	Total/NA	Water	PrecSep-21	
400-132315-15	FB-02	Total/NA	Water	PrecSep-21	
400-132315-16	EB-02	Total/NA	Water	PrecSep-21	
400-132315-17	DUP-02	Total/NA	Water	PrecSep-21	
MB 160-287462/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-287462/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
280-92778-B-1-A DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 287466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-132315-1	MW-2	Total/NA	Water	PrecSep_0	
400-132315-2	MW-3	Total/NA	Water	PrecSep_0	
400-132315-3	MW-6	Total/NA	Water	PrecSep_0	
400-132315-4	MW-7	Total/NA	Water	PrecSep_0	
400-132315-5	MW-8	Total/NA	Water	PrecSep_0	
400-132315-6	MW-9	Total/NA	Water	PrecSep_0	
400-132315-7	MW-10	Total/NA	Water	PrecSep_0	
400-132315-8	MW-11	Total/NA	Water	PrecSep_0	
400-132315-9	MW-12	Total/NA	Water	PrecSep_0	
400-132315-10	MW-13	Total/NA	Water	PrecSep_0	
400-132315-11	MW-14	Total/NA	Water	PrecSep_0	
400-132315-12	FB-01	Total/NA	Water	PrecSep_0	
400-132315-13	EB-01	Total/NA	Water	PrecSep_0	
400-132315-14	DUP-01	Total/NA	Water	PrecSep_0	
400-132315-15	FB-02	Total/NA	Water	PrecSep_0	
400-132315-16	EB-02	Total/NA	Water	PrecSep_0	
400-132315-17	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-287466/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-287466/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
280-92778-B-1-B DU	Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-287462/1-A
Matrix: Water
Analysis Batch: 290832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 287462

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04841	U	0.175	0.175	1.00	0.337	pCi/L	01/11/17 11:56	02/02/17 21:23	1
Carrier	%Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					01/11/17 11:56	02/02/17 21:23	1

Lab Sample ID: LCS 160-287462/2-A
Matrix: Water
Analysis Batch: 290832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 287462

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.1	13.38		1.65	1.00	0.326	pCi/L	121	68 - 137
Carrier	%Yield	LCS Qualifier	Limits						
Ba Carrier	84.6		40 - 110						

Lab Sample ID: 280-92778-B-1-A DU
Matrix: Water
Analysis Batch: 290910

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 287462

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.333		0.3143		0.223	1.00	0.293	pCi/L	0.04	1
Carrier	%Yield	DU Qualifier	Limits							
Ba Carrier	83.2		40 - 110							

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-287466/1-A
Matrix: Water
Analysis Batch: 290744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 287466

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.004405	U	0.230	0.230	1.00	0.412	pCi/L	01/11/17 12:19	02/02/17 10:55	1
Carrier	%Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		40 - 110					01/11/17 12:19	02/02/17 10:55	1
Y Carrier	86.4		40 - 110					01/11/17 12:19	02/02/17 10:55	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

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

Lab Sample ID: LCS 160-287466/2-A
Matrix: Water
Analysis Batch: 290744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 287466

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.9	15.91		1.69	1.00	0.377	pCi/L	114	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	84.6		40 - 110
Y Carrier	88.2		40 - 110

Lab Sample ID: 280-92778-B-1-B DU
Matrix: Water
Analysis Batch: 290832

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 287466

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.474		0.4792		0.283	1.00	0.425	pCi/L	0.01	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	83.2		40 - 110
Y Carrier	86.0		40 - 110

Chain of Custody Record

Client Information		Lab P/W: Whitmire, Cheyenne R.		Carrier Tracking No(s):		COC No: 400-53432-23565.1	
Client Contact: Kristi Mitchell		E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 2		Job #:	
Company: Gulf Power Company		Address: BIN 731 One Energy Place		City: Pensacola		State, Zip: FL, 32520	
Phone: 850-444-6427(Tel)		PO #: Purchase Order not required		WO #:		Project #: 40006609	
Email: krmitch@southernco.com		Project Name: CCR Smith Plant		Site:		SSOW#:	
Due Date Requested:		TAT Requested (days):		Field Sampling - Field Sampling Parameters		Analysis Requested	
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastefoil, RT=Residue, As=As)	
Sample Identification		Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
MW-2	1/4/17 1253	G	Water	X	X	X	X
MW-3	1/4/17 1548		Water				
MW-6	1/5/17 1636		Water				
MW-7	1/5/17 1522		Water				
MW-8	1/5/17 1311		Water				
MW-9	1/5/17 1101		Water				
MW-10	1/5/17 0843		Water				
MW-11	1/5/17 0755		Water				
MW-12	1/4/17 1058		Water				
MW-13	1/5/17 1405		Water				
MW-14	1/5/17 1144	G	Water	X	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: <input type="checkbox"/> I, II, III, IV, Other (specify) <input type="checkbox"/> Archive For _____ Months							
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							
Special Instructions/QC Requirements:							
Empty Kit Relinquished by:		Date/Time:		Date/Time:		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		1/6/17 0822		1/6/17 0822		Company: <i>[Signature]</i>	
Relinquished by:		Date/Time:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.3°C 1/4 5.1°C 1/3 7.9°C 1/2 6.1 3.9°C 1/2 6		Company:	



Chain of Custody Record

Client Information
 Client Contact: Kristi Mitchell
 Company: Gulf Power Company
 Address: BIN 731 One Energy Place
 City: Pensacola
 State, Zip: FL, 32520
 Phone: 850-444-6427 (Tel)
 Email: krmitch@southernco.com
 Project Name: CCR Smith Plant
 Site:

Sampler: *Brett Sudler*
 Lab P.M.: Whitmire, Cheyenne R
 Phone: 850 380 3458
 E-Mail: cheyenne.whitmire@testamericainc.com

Carrier Tracking No(s):
 COC No: 400-53432-23565.2
 Page: Page 2 of 2
 Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (G=Grab)	Matrix (W=water, S=solid, O=wastewater)	Preservation Code	Field Filtered Sample (Yes or No)			Form MS/MSD (Yes or No)			Field Sampling - Field Sampling Parameters			Analysis Requested	Total Number of Containers	Special Instructions/Note:
						D	N	I	D	N	I	D	N	I			
FB-01	11/5/17	1230	G	Water		X			X								
EB-01	11/5/17	1415	G	Water		X			X								
DUP-01	11/4/17	1153	G	Water		X			X								
FB-02	11/5/17	1450	G	Water		X			X								
EB-02	11/5/17	1650	G	Water		X			X								
DUP-02	11/5/17	1644	G	Water		X			X								
				Water		X			X								
				Water		X			X								

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Donna* Date: 11/6/17
 Relinquished by: _____ Date: 0822
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____

Company: *RDH*
 Company: _____
 Company: _____

Relinquished by: *Donna* Date: 11/6/17
 Relinquished by: *RDH* Date: 0822
 Relinquished by: _____ Date: _____

Custody Seal Intact: Yes No
 Custody Seal No.: _____

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)

Method of Shipment: _____
 Date/Time: 11/6/17 0822
 Date/Time: _____
 Date/Time: _____



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-132315-2

Login Number: 132315

List Source: TestAmerica Pensacola

List Number: 1

Creator: Siddoway, Benjamin

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	4.3°C, 4.5°C, 3.7°C, 3.9°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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

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	12-30-17
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	12-01-16 *
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 *
North Dakota	State Program	8	R207	06-30-17

* Certification renewal pending - certification considered valid.

TestAmerica Pensacola

Certification Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-132315-2

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		P330-17-0028	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: 400-135080-1

TestAmerica Sample Delivery Group: CCR Smith Plant

Client Project/Site: CCR Smith Plant

Sampling Event: CCR Smith Plant

For:

Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

4/24/2017 10:00:33 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Job ID: 400-135080-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-135080-1

Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 345689 and analytical batch 345906 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 following samples were diluted to bring the concentration of target analytes within the calibration range: MW-6 (400-135080-3), MW-7 (400-135080-4), MW-8 (400-135080-5), MW-9 (400-135080-6), MW-10 (400-135080-7), MW-11 (400-135080-8), MW-13 (400-135080-10), MW-14 (400-135080-11) and DUP-02 (400-135080-17). Elevated reporting limits (RLs) are provided.

General Chemistry

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 346763 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 following samples were diluted to bring the concentration of target analytes within the calibration range: MW-10 (400-135080-7), MW-11 (400-135080-8), MW-12 (400-135080-9) and DUP-02 (400-135080-17). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 346769 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 following samples were diluted to bring the concentration of target analytes within the calibration range: MW-10 (400-135080-7), MW-11 (400-135080-8), MW-13 (400-135080-10), MW-14 (400-135080-11) and DUP-02 (400-135080-17). Elevated reporting limits (RLs) are provided.

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-2

Lab Sample ID: 400-135080-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00066	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.025		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.032	I	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	46		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0033		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.0049	I	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0053	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0025		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	160		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	14		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.21		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	2.3	I	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Field pH	6.59				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-135080-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.022		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0030		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.013		0.0050	0.0032	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
Field pH	5.02				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-6

Lab Sample ID: 400-135080-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0011	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.070		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.0014	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.018		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0019	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0011	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Calcium - DL	390		1.3	0.63	mg/L	25		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-6 (Continued)

Lab Sample ID: 400-135080-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL2	10		1.0	0.42	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	7000		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	3500		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	660		180	49	mg/L	35		SM 4500 SO4 E	Total/NA
Field pH	5.05				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-135080-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0014		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.071		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0025		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.0025	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	3.1		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	240		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3500		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	1500		80	24	mg/L	40		SM 4500 Cl- E	Total/NA
Sulfate	710		180	49	mg/L	35		SM 4500 SO4 E	Total/NA
Field pH	6.34				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-135080-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0011	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.071		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.0014	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0070		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Boron - DL	21		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	590		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	7200		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	3600		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	990		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	4.66				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-135080-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0025		0.0013	0.00046	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-9 (Continued)

Lab Sample ID: 400-135080-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00043	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium	0.0067		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Boron - RADL	9.6		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - RADL	400		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	5400		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2400		110	33	mg/L	55		SM 4500 Cl- E	Total/NA
Sulfate	840		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	5.62				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-135080-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0042		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.13		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.00054	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Chromium	0.0015	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.0060		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.0041	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	19		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	610		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	5700		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2800		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Sulfate	920		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	5.24				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-135080-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0017	I	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Arsenic	0.033		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Beryllium	0.0011	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Chromium	0.0046		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.0044	I	0.0050	0.0032	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-11 (Continued)

Lab Sample ID: 400-135080-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.016		0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0012	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Boron - RADL	3.6		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - RADL	150		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	4400		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2500		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Sulfate	320		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	6.32				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-135080-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.015		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Boron	0.060		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	37		0.25	0.13	mg/L	5		6020	Total Recoverable
Lithium	0.011		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	490		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	210		20	6.0	mg/L	10		SM 4500 Cl- E	Total/NA
Fluoride	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	6.1				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-135080-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00067	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Lithium	0.19		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Molybdenum	0.028		0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - RADL	15		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - RADL	920		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	8900		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	4700		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	1300		250	70	mg/L	50		SM 4500 SO4 E	Total/NA
Field pH	6.97				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-135080-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0045		0.0013	0.00046	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-14 (Continued)

Lab Sample ID: 400-135080-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.065		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0012	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.016		0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	11		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	310		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	5000		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2400		110	33	mg/L	55		SM 4500 Cl- E	Total/NA
Sulfate	690		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	6.63				SU	1		Field Sampling	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 400-135080-12

No Detections.

Client Sample ID: EB-01

Lab Sample ID: 400-135080-13

No Detections.

Client Sample ID: DUP-01

Lab Sample ID: 400-135080-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.020		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	2.0		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0025		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Lithium	0.012		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	42		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

Client Sample ID: FB-02

Lab Sample ID: 400-135080-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.0015	I	0.0025	0.0010	mg/L	5		6020	Total Recoverable
Arsenic	0.00072	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Molybdenum	0.0032	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.0028		0.0013	0.00024	mg/L	5		6020	Total Recoverable
Chloride	0.76	I	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: EB-02

Lab Sample ID: 400-135080-16

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: EB-02 (Continued)

Lab Sample ID: 400-135080-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.00052	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable
Chloride	0.64	I	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 400-135080-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0042		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.066		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0012	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.016		0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	11		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	300		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	4800		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2500		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	690		250	70	mg/L	50		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-135080-1	MW-2	Water	03/10/17 14:55	03/13/17 08:30
400-135080-2	MW-3	Water	03/10/17 18:30	03/13/17 08:30
400-135080-3	MW-6	Water	03/11/17 09:36	03/13/17 08:30
400-135080-4	MW-7	Water	03/11/17 08:03	03/13/17 08:30
400-135080-5	MW-8	Water	03/11/17 12:14	03/13/17 08:30
400-135080-6	MW-9	Water	03/11/17 15:46	03/13/17 08:30
400-135080-7	MW-10	Water	03/11/17 16:50	03/13/17 08:30
400-135080-8	MW-11	Water	03/11/17 18:01	03/13/17 08:30
400-135080-9	MW-12	Water	03/10/17 13:10	03/13/17 08:30
400-135080-10	MW-13	Water	03/11/17 10:57	03/13/17 08:30
400-135080-11	MW-14	Water	03/11/17 13:33	03/13/17 08:30
400-135080-12	FB-01	Water	03/11/17 08:35	03/13/17 08:30
400-135080-13	EB-01	Water	03/11/17 08:42	03/13/17 08:30
400-135080-14	DUP-01	Water	03/10/17 17:30	03/13/17 08:30
400-135080-15	FB-02	Water	03/11/17 17:20	03/13/17 08:30
400-135080-16	EB-02	Water	03/11/17 17:30	03/13/17 08:30
400-135080-17	DUP-02	Water	03/11/17 12:33	03/13/17 08:30

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-2
Date Collected: 03/10/17 14:55
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 11:49	5
Arsenic	0.00066	I	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 11:49	5
Barium	0.025		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 11:49	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 11:49	5
Boron	0.032	I	0.050	0.021	mg/L		03/14/17 12:47	03/15/17 11:49	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 11:49	5
Calcium	46		0.25	0.13	mg/L		03/14/17 12:47	03/15/17 11:49	5
Chromium	0.0033		0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 11:49	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 11:49	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 11:49	5
Lithium	0.0049	I	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 11:49	5
Molybdenum	0.0053	I	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 11:49	5
Selenium	0.0025		0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 11:49	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 11:49	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 13:48	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	160		5.0	3.4	mg/L			03/14/17 08:50	1
Chloride	14		2.0	0.60	mg/L			03/22/17 14:03	1
Fluoride	0.21		0.10	0.032	mg/L			03/20/17 16:21	1
Sulfate	2.3	I	5.0	1.4	mg/L			03/22/17 10:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.59				SU			03/10/17 14:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-3
Date Collected: 03/10/17 18:30
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 11:53	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 11:53	5
Barium	0.022		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 11:53	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 11:53	5
Boron	0.021	U	0.050	0.021	mg/L		03/14/17 12:47	03/15/17 11:53	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 11:53	5
Calcium	1.9		0.25	0.13	mg/L		03/14/17 12:47	03/15/17 11:53	5
Chromium	0.0030		0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 11:53	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 11:53	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 11:53	5
Lithium	0.013		0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 11:53	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 11:53	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 11:53	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 11:53	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	16		5.0	3.4	mg/L			03/14/17 08:50	1
Chloride	11		2.0	0.60	mg/L			03/23/17 08:48	1
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 16:27	1
Sulfate	1.4	U	5.0	1.4	mg/L			03/22/17 10:14	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.02				SU			03/10/17 18:30	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-6
Date Collected: 03/11/17 09:36
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 12:16	5
Arsenic	0.0011	I	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 12:16	5
Barium	0.070		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 12:16	5
Beryllium	0.0014	I	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 12:16	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 12:16	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 12:16	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 12:16	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 12:16	5
Lithium	0.018		0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 12:16	5
Molybdenum	0.0019	I	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 12:16	5
Selenium	0.0011	I	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 12:16	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 12:16	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390		1.3	0.63	mg/L		03/14/17 12:47	03/15/17 12:21	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10		1.0	0.42	mg/L		03/14/17 12:47	03/15/17 12:48	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7000		25	17	mg/L			03/15/17 16:46	1
Chloride	3500		200	60	mg/L			03/22/17 15:25	100
Fluoride	0.040	I	0.10	0.032	mg/L			03/20/17 16:30	1
Sulfate	660		180	49	mg/L			03/22/17 10:57	35

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.05				SU			03/11/17 09:36	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-7
Date Collected: 03/11/17 08:03
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-4
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 12:52	5
Arsenic	0.0014		0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 12:52	5
Barium	0.071		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 12:52	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 12:52	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 12:52	5
Chromium	0.0025		0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 12:52	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 12:52	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 12:52	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 12:52	5
Molybdenum	0.0025	I	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 12:52	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 12:52	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 12:52	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.1		0.25	0.11	mg/L		03/14/17 12:47	03/15/17 12:57	25
Calcium	240		1.3	0.63	mg/L		03/14/17 12:47	03/15/17 12:57	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3500		25	17	mg/L			03/15/17 16:46	1
Chloride	1500		80	24	mg/L			03/22/17 14:22	40
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 16:33	1
Sulfate	710		180	49	mg/L			03/22/17 10:57	35

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.34				SU			03/11/17 08:03	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-8
Date Collected: 03/11/17 12:14
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 13:01	5
Arsenic	0.0011	I	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 13:01	5
Barium	0.071		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 13:01	5
Beryllium	0.0014	I	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 13:01	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 13:01	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 13:01	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 13:01	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 13:01	5
Lithium	0.0070		0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 13:01	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 13:01	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 13:01	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 13:01	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	21		2.0	0.84	mg/L		03/14/17 12:47	03/15/17 13:06	200
Calcium	590		10	5.0	mg/L		03/14/17 12:47	03/15/17 13:06	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:08	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7200		25	17	mg/L			03/15/17 16:46	1
Chloride	3600		200	60	mg/L			03/22/17 15:25	100
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 16:36	1
Sulfate	990		150	42	mg/L			03/22/17 11:22	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.66				SU			03/11/17 12:14	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-9
Date Collected: 03/11/17 15:46
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-6
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 13:10	5
Arsenic	0.0025		0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 13:10	5
Barium	0.11		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 13:10	5
Beryllium	0.00043	I	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 13:10	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 13:10	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 13:10	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 13:10	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 13:10	5
Lithium	0.0067		0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 13:10	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 13:10	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 13:10	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 13:10	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.6		1.0	0.42	mg/L		03/14/17 12:47	03/15/17 14:18	100
Calcium	400		5.0	2.5	mg/L		03/14/17 12:47	03/15/17 14:18	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5400		25	17	mg/L			03/15/17 16:46	1
Chloride	2400		110	33	mg/L			03/22/17 15:55	55
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 16:39	1
Sulfate	840		150	42	mg/L			03/22/17 11:22	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.62				SU			03/11/17 15:46	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-10
Date Collected: 03/11/17 16:50
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-7
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 13:24	5
Arsenic	0.0042		0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 13:24	5
Barium	0.13		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 13:24	5
Beryllium	0.00054	I	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 13:24	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 13:24	5
Chromium	0.0015	I	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 13:24	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 13:24	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 13:24	5
Lithium	0.0060		0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 13:24	5
Molybdenum	0.0041	I	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 13:24	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 13:24	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 13:24	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	19		2.0	0.84	mg/L		03/14/17 12:47	03/15/17 13:28	200
Calcium	610		10	5.0	mg/L		03/14/17 12:47	03/15/17 13:28	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5700		25	17	mg/L			03/15/17 16:46	1
Chloride	2800		120	36	mg/L			03/23/17 10:21	60
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 16:42	1
Sulfate	920		150	42	mg/L			03/22/17 14:51	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.24				SU			03/11/17 16:50	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-11

Date Collected: 03/11/17 18:01

Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-8

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0017	I	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 14:09	5
Arsenic	0.033		0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 14:09	5
Barium	0.12		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 14:09	5
Beryllium	0.0011	I	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:09	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:09	5
Chromium	0.0046		0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 14:09	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 14:09	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 14:09	5
Lithium	0.0044	I	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 14:09	5
Molybdenum	0.016		0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 14:09	5
Selenium	0.0012	I	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 14:09	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 14:09	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.6		0.25	0.11	mg/L		03/14/17 12:47	03/15/17 14:47	25
Calcium	150		1.3	0.63	mg/L		03/14/17 12:47	03/15/17 14:47	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4400		25	17	mg/L			03/15/17 16:46	1
Chloride	2500		120	36	mg/L			03/23/17 10:21	60
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 16:45	1
Sulfate	320		150	42	mg/L			03/22/17 14:51	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.32				SU			03/11/17 18:01	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-12
Date Collected: 03/10/17 13:10
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-9
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 14:22	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 14:22	5
Barium	0.015		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 14:22	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:22	5
Boron	0.060		0.050	0.021	mg/L		03/14/17 12:47	03/15/17 14:22	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:22	5
Calcium	37		0.25	0.13	mg/L		03/14/17 12:47	03/15/17 14:22	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 14:22	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 14:22	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 14:22	5
Lithium	0.011		0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 14:22	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 14:22	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 14:22	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 14:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	490		5.0	3.4	mg/L			03/14/17 08:50	1
Chloride	210		20	6.0	mg/L			03/23/17 09:06	10
Fluoride	0.10		0.10	0.032	mg/L			03/20/17 16:52	1
Sulfate	1.4	U	5.0	1.4	mg/L			03/22/17 10:15	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.1				SU			03/10/17 13:10	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-13
Date Collected: 03/11/17 10:57
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-10
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 14:34	5
Arsenic	0.00067	I	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 14:34	5
Barium	0.12		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 14:34	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:34	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:34	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 14:34	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 14:34	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 14:34	5
Lithium	0.19		0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 14:34	5
Molybdenum	0.028		0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 14:34	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 14:34	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 14:34	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	15		2.0	0.84	mg/L		03/14/17 12:47	03/15/17 15:46	200
Calcium	920		10	5.0	mg/L		03/14/17 12:47	03/15/17 15:46	200

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:32	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8900		50	34	mg/L			03/15/17 16:46	1
Chloride	4700		200	60	mg/L			03/22/17 15:25	100
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 16:56	1
Sulfate	1300		250	70	mg/L			03/22/17 16:13	50

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.97				SU			03/11/17 10:57	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-14
Date Collected: 03/11/17 13:33
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-11
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 15:28	5
Arsenic	0.0045		0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 15:28	5
Barium	0.065		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 15:28	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:28	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:28	5
Chromium	0.0012	I	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 15:28	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 15:28	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 15:28	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 15:28	5
Molybdenum	0.016		0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 15:28	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 15:28	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 15:28	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11		1.0	0.42	mg/L		03/14/17 12:47	03/15/17 15:41	100
Calcium	310		5.0	2.5	mg/L		03/14/17 12:47	03/15/17 15:41	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5000		25	17	mg/L			03/15/17 16:46	1
Chloride	2400		110	33	mg/L			03/22/17 15:54	55
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 17:12	1
Sulfate	690		150	42	mg/L			03/22/17 14:51	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.63				SU			03/11/17 13:33	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: FB-01
Date Collected: 03/11/17 08:35
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-12
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 15:37	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 15:37	5
Barium	0.00049	U	0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 15:37	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:37	5
Boron	0.021	U	0.050	0.021	mg/L		03/14/17 12:47	03/15/17 15:37	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:37	5
Calcium	0.13	U	0.25	0.13	mg/L		03/14/17 12:47	03/15/17 15:37	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 15:37	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 15:37	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 15:37	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 15:37	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 15:37	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 15:37	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 15:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			03/15/17 16:46	1
Chloride	0.60	U	2.0	0.60	mg/L			03/22/17 14:57	1
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 17:14	1
Sulfate	1.4	U	5.0	1.4	mg/L			03/22/17 14:24	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: EB-01
Date Collected: 03/11/17 08:42
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-13
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 14:29	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 14:29	5
Barium	0.00049	U	0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 14:29	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:29	5
Boron	0.021	U	0.050	0.021	mg/L		03/14/17 12:47	03/15/17 14:29	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:29	5
Calcium	0.13	U	0.25	0.13	mg/L		03/14/17 12:47	03/15/17 14:29	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 14:29	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 14:29	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 14:29	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 14:29	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 14:29	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 14:29	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 14:29	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:35	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			03/15/17 16:46	1
Chloride	0.60	U	2.0	0.60	mg/L			03/22/17 14:57	1
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 17:18	1
Sulfate	1.4	U	5.0	1.4	mg/L			03/22/17 14:24	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: DUP-01
Date Collected: 03/10/17 17:30
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-14
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 15:50	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 15:50	5
Barium	0.020		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 15:50	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:50	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:50	5
Calcium	2.0		0.25	0.13	mg/L		03/14/17 12:47	03/15/17 15:50	5
Chromium	0.0025		0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 15:50	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 15:50	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 15:50	5
Lithium	0.012		0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 15:50	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 15:50	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 15:50	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 15:50	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		03/14/17 12:47	03/16/17 11:31	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:37	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			03/15/17 16:46	1
Chloride	11		2.0	0.60	mg/L			03/23/17 08:48	1
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 17:20	1
Sulfate	1.4	U	5.0	1.4	mg/L			03/22/17 10:15	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: FB-02
Date Collected: 03/11/17 17:20
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-15
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0015	I	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 14:04	5
Arsenic	0.00072	I	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 14:04	5
Barium	0.00049	U	0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 14:04	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:04	5
Boron	0.021	U	0.050	0.021	mg/L		03/14/17 12:47	03/15/17 14:04	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 14:04	5
Calcium	0.13	U	0.25	0.13	mg/L		03/14/17 12:47	03/15/17 14:04	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 14:04	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 14:04	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 14:04	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 14:04	5
Molybdenum	0.0032	I	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 14:04	5
Selenium	0.0028		0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 14:04	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 14:04	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:38	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			03/15/17 16:46	1
Chloride	0.76	I	2.0	0.60	mg/L			03/23/17 08:48	1
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 17:23	1
Sulfate	1.4	U	5.0	1.4	mg/L			03/22/17 14:24	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: EB-02
Date Collected: 03/11/17 17:30
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-16
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 15:23	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 15:23	5
Barium	0.00049	U	0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 15:23	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:23	5
Boron	0.021	U	0.050	0.021	mg/L		03/14/17 12:47	03/15/17 15:23	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:23	5
Calcium	0.13	U	0.25	0.13	mg/L		03/14/17 12:47	03/15/17 15:23	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 15:23	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 15:23	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 15:23	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 15:23	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 15:23	5
Selenium	0.00052	I	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 15:23	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 15:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:39	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			03/16/17 16:35	1
Chloride	0.64	I	2.0	0.60	mg/L			03/23/17 08:48	1
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 17:26	1
Sulfate	1.4	U	5.0	1.4	mg/L			03/22/17 14:24	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: DUP-02

Date Collected: 03/11/17 12:33

Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-17

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 15:55	5
Arsenic	0.0042		0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 15:55	5
Barium	0.066		0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 15:55	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:55	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 15:55	5
Chromium	0.0012	I	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 15:55	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 15:55	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 15:55	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 15:55	5
Molybdenum	0.016		0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 15:55	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 15:55	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 15:55	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11		1.0	0.42	mg/L		03/14/17 12:47	03/15/17 16:06	100
Calcium	300		5.0	2.5	mg/L		03/14/17 12:47	03/15/17 16:06	100

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 14:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	4800		25	17	mg/L			03/15/17 16:46	1
Chloride	2500		120	36	mg/L			03/23/17 10:21	60
Fluoride	0.040	I	0.10	0.032	mg/L			03/20/17 18:11	1
Sulfate	690		250	70	mg/L			03/22/17 16:13	50

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

General Chemistry

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-2
Date Collected: 03/10/17 14:55
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 11:49	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 13:48	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345609	03/14/17 08:50	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	346763	03/22/17 14:03	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:21	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	346700	03/22/17 10:14	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350664	03/10/17 14:55	BWS	TAL PEN

Client Sample ID: MW-3
Date Collected: 03/10/17 18:30
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 11:53	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345609	03/14/17 08:50	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	346864	03/23/17 08:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:27	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	346700	03/22/17 10:14	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350664	03/10/17 18:30	BWS	TAL PEN

Client Sample ID: MW-6
Date Collected: 03/11/17 09:36
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 12:16	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	345906	03/15/17 12:21	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL2		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	345906	03/15/17 12:48	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	346763	03/22/17 15:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:30	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		35	346700	03/22/17 10:57	BJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	350664	03/11/17 09:36	BWS	TAL PEN

Client Sample ID: MW-7

Lab Sample ID: 400-135080-4

Date Collected: 03/11/17 08:03

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 12:52	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	345906	03/15/17 12:57	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		40	346763	03/22/17 14:22	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:33	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		35	346700	03/22/17 10:57	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350664	03/11/17 08:03	BWS	TAL PEN

Client Sample ID: MW-8

Lab Sample ID: 400-135080-5

Date Collected: 03/11/17 12:14

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 13:01	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	200	345906	03/15/17 13:06	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:08	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	346763	03/22/17 15:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:36	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	346700	03/22/17 11:22	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350664	03/11/17 12:14	BWS	TAL PEN

Client Sample ID: MW-9

Lab Sample ID: 400-135080-6

Date Collected: 03/11/17 15:46

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 13:10	DRE	TAL PEN
Total Recoverable	Prep	3005A	RADL		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	RADL	100	345906	03/15/17 14:18	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-9
Date Collected: 03/11/17 15:46
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	346037	03/16/17 14:10	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		55	346763	03/22/17 15:55	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:39	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	346700	03/22/17 11:22	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350664	03/11/17 15:46	BWS	TAL PEN

Client Sample ID: MW-10
Date Collected: 03/11/17 16:50
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 13:24	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	200	345906	03/15/17 13:28	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		60	346864	03/23/17 10:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:42	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	346769	03/22/17 14:51	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350664	03/11/17 16:50	BWS	TAL PEN

Client Sample ID: MW-11
Date Collected: 03/11/17 18:01
Date Received: 03/13/17 08:30

Lab Sample ID: 400-135080-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 14:09	DRE	TAL PEN
Total Recoverable	Prep	3005A	RADL		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	RADL	25	345906	03/15/17 14:47	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		60	346864	03/23/17 10:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:45	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	346769	03/22/17 14:51	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350664	03/11/17 18:01	BWS	TAL PEN

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-12

Lab Sample ID: 400-135080-9

Date Collected: 03/10/17 13:10

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 14:22	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345609	03/14/17 08:50	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		10	346864	03/23/17 09:06	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:52	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	346700	03/22/17 10:15	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350664	03/10/17 13:10	BWS	TAL PEN

Client Sample ID: MW-13

Lab Sample ID: 400-135080-10

Date Collected: 03/11/17 10:57

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 14:34	DRE	TAL PEN
Total Recoverable	Prep	3005A	RADL		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	RADL	200	345906	03/15/17 15:46	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:32	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	346763	03/22/17 15:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 16:56	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		50	346769	03/22/17 16:13	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	350664	03/11/17 10:57	BWS	TAL PEN

Client Sample ID: MW-14

Lab Sample ID: 400-135080-11

Date Collected: 03/11/17 13:33

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 15:28	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	100	345906	03/15/17 15:41	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:33	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		55	346763	03/22/17 15:54	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 17:12	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	346769	03/22/17 14:51	BJB	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: MW-14

Lab Sample ID: 400-135080-11

Date Collected: 03/11/17 13:33

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	350664	03/11/17 13:33	BWS	TAL PEN

Client Sample ID: FB-01

Lab Sample ID: 400-135080-12

Date Collected: 03/11/17 08:35

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 15:37	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	346763	03/22/17 14:57	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 17:14	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	346769	03/22/17 14:24	BJB	TAL PEN

Client Sample ID: EB-01

Lab Sample ID: 400-135080-13

Date Collected: 03/11/17 08:42

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 14:29	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:35	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	346763	03/22/17 14:57	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 17:18	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	346769	03/22/17 14:24	BJB	TAL PEN

Client Sample ID: DUP-01

Lab Sample ID: 400-135080-14

Date Collected: 03/10/17 17:30

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 15:50	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	RA	5	346121	03/16/17 11:31	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:37	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: DUP-01

Lab Sample ID: 400-135080-14

Date Collected: 03/10/17 17:30

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 CI- E		1	346864	03/23/17 08:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 17:20	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	346700	03/22/17 10:15	BJB	TAL PEN

Client Sample ID: FB-02

Lab Sample ID: 400-135080-15

Date Collected: 03/11/17 17:20

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 14:04	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:38	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	346864	03/23/17 08:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 17:23	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	346769	03/22/17 14:24	BJB	TAL PEN

Client Sample ID: EB-02

Lab Sample ID: 400-135080-16

Date Collected: 03/11/17 17:30

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 15:23	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	346037	03/16/17 14:39	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	346006	03/16/17 16:35	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	346864	03/23/17 08:48	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346486	03/20/17 17:26	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	346769	03/22/17 14:24	BJB	TAL PEN

Client Sample ID: DUP-02

Lab Sample ID: 400-135080-17

Date Collected: 03/11/17 12:33

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	345906	03/15/17 15:55	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		345689	03/14/17 12:47	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	100	345906	03/15/17 16:06	DRE	TAL PEN
Total/NA	Prep	7470A			345683	03/14/17 12:21	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Client Sample ID: DUP-02

Lab Sample ID: 400-135080-17

Date Collected: 03/11/17 12:33

Matrix: Water

Date Received: 03/13/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7470A		1	346037	03/16/17 14:40	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	345776	03/15/17 16:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		60	346864	03/23/17 10:21	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	346491	03/20/17 18:11	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		50	346769	03/22/17 16:13	BJB	TAL PEN

Laboratory References:

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

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QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Metals

Prep Batch: 345683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total/NA	Water	7470A	
400-135080-2	MW-3	Total/NA	Water	7470A	
400-135080-3	MW-6	Total/NA	Water	7470A	
400-135080-4	MW-7	Total/NA	Water	7470A	
400-135080-5	MW-8	Total/NA	Water	7470A	
400-135080-6	MW-9	Total/NA	Water	7470A	
400-135080-7	MW-10	Total/NA	Water	7470A	
400-135080-8	MW-11	Total/NA	Water	7470A	
400-135080-9	MW-12	Total/NA	Water	7470A	
400-135080-10	MW-13	Total/NA	Water	7470A	
400-135080-11	MW-14	Total/NA	Water	7470A	
400-135080-12	FB-01	Total/NA	Water	7470A	
400-135080-13	EB-01	Total/NA	Water	7470A	
400-135080-14	DUP-01	Total/NA	Water	7470A	
400-135080-15	FB-02	Total/NA	Water	7470A	
400-135080-16	EB-02	Total/NA	Water	7470A	
400-135080-17	DUP-02	Total/NA	Water	7470A	
MB 400-345683/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-345683/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-135080-1 MS	MW-2	Total/NA	Water	7470A	
400-135080-1 MSD	MW-2	Total/NA	Water	7470A	

Prep Batch: 345689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total Recoverable	Water	3005A	
400-135080-2	MW-3	Total Recoverable	Water	3005A	
400-135080-3 - DL	MW-6	Total Recoverable	Water	3005A	
400-135080-3 - DL2	MW-6	Total Recoverable	Water	3005A	
400-135080-3	MW-6	Total Recoverable	Water	3005A	
400-135080-4	MW-7	Total Recoverable	Water	3005A	
400-135080-4 - DL	MW-7	Total Recoverable	Water	3005A	
400-135080-5 - DL	MW-8	Total Recoverable	Water	3005A	
400-135080-5	MW-8	Total Recoverable	Water	3005A	
400-135080-6 - RADL	MW-9	Total Recoverable	Water	3005A	
400-135080-6	MW-9	Total Recoverable	Water	3005A	
400-135080-7 - DL	MW-10	Total Recoverable	Water	3005A	
400-135080-7	MW-10	Total Recoverable	Water	3005A	
400-135080-8 - RADL	MW-11	Total Recoverable	Water	3005A	
400-135080-8	MW-11	Total Recoverable	Water	3005A	
400-135080-9	MW-12	Total Recoverable	Water	3005A	
400-135080-10	MW-13	Total Recoverable	Water	3005A	
400-135080-10 - RADL	MW-13	Total Recoverable	Water	3005A	
400-135080-11 - DL	MW-14	Total Recoverable	Water	3005A	
400-135080-11	MW-14	Total Recoverable	Water	3005A	
400-135080-12	FB-01	Total Recoverable	Water	3005A	
400-135080-13	EB-01	Total Recoverable	Water	3005A	
400-135080-14	DUP-01	Total Recoverable	Water	3005A	
400-135080-14 - RA	DUP-01	Total Recoverable	Water	3005A	
400-135080-15	FB-02	Total Recoverable	Water	3005A	
400-135080-16	EB-02	Total Recoverable	Water	3005A	
400-135080-17 - DL	DUP-02	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Metals (Continued)

Prep Batch: 345689 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-17	DUP-02	Total Recoverable	Water	3005A	
MB 400-345689/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-345689/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-135080-2 MS	MW-3	Total Recoverable	Water	3005A	
400-135080-2 MSD	MW-3	Total Recoverable	Water	3005A	

Analysis Batch: 345906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total Recoverable	Water	6020	345689
400-135080-2	MW-3	Total Recoverable	Water	6020	345689
400-135080-3	MW-6	Total Recoverable	Water	6020	345689
400-135080-3 - DL	MW-6	Total Recoverable	Water	6020	345689
400-135080-3 - DL2	MW-6	Total Recoverable	Water	6020	345689
400-135080-4	MW-7	Total Recoverable	Water	6020	345689
400-135080-4 - DL	MW-7	Total Recoverable	Water	6020	345689
400-135080-5	MW-8	Total Recoverable	Water	6020	345689
400-135080-5 - DL	MW-8	Total Recoverable	Water	6020	345689
400-135080-6	MW-9	Total Recoverable	Water	6020	345689
400-135080-6 - RADL	MW-9	Total Recoverable	Water	6020	345689
400-135080-7	MW-10	Total Recoverable	Water	6020	345689
400-135080-7 - DL	MW-10	Total Recoverable	Water	6020	345689
400-135080-8	MW-11	Total Recoverable	Water	6020	345689
400-135080-8 - RADL	MW-11	Total Recoverable	Water	6020	345689
400-135080-9	MW-12	Total Recoverable	Water	6020	345689
400-135080-10	MW-13	Total Recoverable	Water	6020	345689
400-135080-10 - RADL	MW-13	Total Recoverable	Water	6020	345689
400-135080-11	MW-14	Total Recoverable	Water	6020	345689
400-135080-11 - DL	MW-14	Total Recoverable	Water	6020	345689
400-135080-12	FB-01	Total Recoverable	Water	6020	345689
400-135080-13	EB-01	Total Recoverable	Water	6020	345689
400-135080-14	DUP-01	Total Recoverable	Water	6020	345689
400-135080-15	FB-02	Total Recoverable	Water	6020	345689
400-135080-16	EB-02	Total Recoverable	Water	6020	345689
400-135080-17	DUP-02	Total Recoverable	Water	6020	345689
400-135080-17 - DL	DUP-02	Total Recoverable	Water	6020	345689
MB 400-345689/1-A ^5	Method Blank	Total Recoverable	Water	6020	345689
LCS 400-345689/2-A	Lab Control Sample	Total Recoverable	Water	6020	345689
400-135080-2 MS	MW-3	Total Recoverable	Water	6020	345689
400-135080-2 MSD	MW-3	Total Recoverable	Water	6020	345689

Analysis Batch: 346037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total/NA	Water	7470A	345683
400-135080-2	MW-3	Total/NA	Water	7470A	345683
400-135080-3	MW-6	Total/NA	Water	7470A	345683
400-135080-4	MW-7	Total/NA	Water	7470A	345683
400-135080-5	MW-8	Total/NA	Water	7470A	345683
400-135080-6	MW-9	Total/NA	Water	7470A	345683
400-135080-7	MW-10	Total/NA	Water	7470A	345683
400-135080-8	MW-11	Total/NA	Water	7470A	345683
400-135080-9	MW-12	Total/NA	Water	7470A	345683

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Metals (Continued)

Analysis Batch: 346037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-10	MW-13	Total/NA	Water	7470A	345683
400-135080-11	MW-14	Total/NA	Water	7470A	345683
400-135080-12	FB-01	Total/NA	Water	7470A	345683
400-135080-13	EB-01	Total/NA	Water	7470A	345683
400-135080-14	DUP-01	Total/NA	Water	7470A	345683
400-135080-15	FB-02	Total/NA	Water	7470A	345683
400-135080-16	EB-02	Total/NA	Water	7470A	345683
400-135080-17	DUP-02	Total/NA	Water	7470A	345683
MB 400-345683/14-A	Method Blank	Total/NA	Water	7470A	345683
LCS 400-345683/15-A	Lab Control Sample	Total/NA	Water	7470A	345683
400-135080-1 MS	MW-2	Total/NA	Water	7470A	345683
400-135080-1 MSD	MW-2	Total/NA	Water	7470A	345683

Analysis Batch: 346121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-14 - RA	DUP-01	Total Recoverable	Water	6020	345689

General Chemistry

Analysis Batch: 345609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total/NA	Water	SM 2540C	
400-135080-2	MW-3	Total/NA	Water	SM 2540C	
400-135080-9	MW-12	Total/NA	Water	SM 2540C	
MB 400-345609/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-345609/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-135080-1 DU	MW-2	Total/NA	Water	SM 2540C	

Analysis Batch: 345776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-3	MW-6	Total/NA	Water	SM 2540C	
400-135080-4	MW-7	Total/NA	Water	SM 2540C	
400-135080-5	MW-8	Total/NA	Water	SM 2540C	
400-135080-6	MW-9	Total/NA	Water	SM 2540C	
400-135080-7	MW-10	Total/NA	Water	SM 2540C	
400-135080-8	MW-11	Total/NA	Water	SM 2540C	
400-135080-10	MW-13	Total/NA	Water	SM 2540C	
400-135080-11	MW-14	Total/NA	Water	SM 2540C	
400-135080-12	FB-01	Total/NA	Water	SM 2540C	
400-135080-13	EB-01	Total/NA	Water	SM 2540C	
400-135080-14	DUP-01	Total/NA	Water	SM 2540C	
400-135080-15	FB-02	Total/NA	Water	SM 2540C	
400-135080-17	DUP-02	Total/NA	Water	SM 2540C	
MB 400-345776/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-345776/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-135074-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
400-135074-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

General Chemistry (Continued)

Analysis Batch: 346006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-16	EB-02	Total/NA	Water	SM 2540C	
MB 400-346006/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-346006/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-135149-B-4 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 346486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total/NA	Water	SM 4500 F C	
400-135080-2	MW-3	Total/NA	Water	SM 4500 F C	
400-135080-3	MW-6	Total/NA	Water	SM 4500 F C	
400-135080-4	MW-7	Total/NA	Water	SM 4500 F C	
400-135080-5	MW-8	Total/NA	Water	SM 4500 F C	
400-135080-6	MW-9	Total/NA	Water	SM 4500 F C	
400-135080-7	MW-10	Total/NA	Water	SM 4500 F C	
400-135080-8	MW-11	Total/NA	Water	SM 4500 F C	
400-135080-9	MW-12	Total/NA	Water	SM 4500 F C	
400-135080-10	MW-13	Total/NA	Water	SM 4500 F C	
400-135080-11	MW-14	Total/NA	Water	SM 4500 F C	
400-135080-12	FB-01	Total/NA	Water	SM 4500 F C	
400-135080-13	EB-01	Total/NA	Water	SM 4500 F C	
400-135080-14	DUP-01	Total/NA	Water	SM 4500 F C	
400-135080-15	FB-02	Total/NA	Water	SM 4500 F C	
400-135080-16	EB-02	Total/NA	Water	SM 4500 F C	
MB 400-346486/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-346486/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-135080-1 MS	MW-2	Total/NA	Water	SM 4500 F C	
400-135080-1 MSD	MW-2	Total/NA	Water	SM 4500 F C	
400-135080-9 DU	MW-12	Total/NA	Water	SM 4500 F C	

Analysis Batch: 346491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-17	DUP-02	Total/NA	Water	SM 4500 F C	
MB 400-346491/4	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-346491/3	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-135080-17 MS	DUP-02	Total/NA	Water	SM 4500 F C	
400-135080-17 MSD	DUP-02	Total/NA	Water	SM 4500 F C	
400-135184-B-1 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 346700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-135080-2	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-135080-3	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-135080-4	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-135080-5	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-135080-6	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-135080-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
400-135080-14	DUP-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-346700/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-346700/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-346700/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

General Chemistry (Continued)

Analysis Batch: 346700 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-134925-A-6 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-134925-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 346763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-135080-3	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-135080-4	MW-7	Total/NA	Water	SM 4500 Cl- E	
400-135080-5	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-135080-6	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-135080-10	MW-13	Total/NA	Water	SM 4500 Cl- E	
400-135080-11	MW-14	Total/NA	Water	SM 4500 Cl- E	
400-135080-12	FB-01	Total/NA	Water	SM 4500 Cl- E	
400-135080-13	EB-01	Total/NA	Water	SM 4500 Cl- E	
MB 400-346763/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-346763/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-346763/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-135080-12 MS	FB-01	Total/NA	Water	SM 4500 Cl- E	
400-135080-12 MSD	FB-01	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 346769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-135080-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
400-135080-10	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-135080-11	MW-14	Total/NA	Water	SM 4500 SO4 E	
400-135080-12	FB-01	Total/NA	Water	SM 4500 SO4 E	
400-135080-13	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-135080-15	FB-02	Total/NA	Water	SM 4500 SO4 E	
400-135080-16	EB-02	Total/NA	Water	SM 4500 SO4 E	
400-135080-17	DUP-02	Total/NA	Water	SM 4500 SO4 E	
MB 400-346769/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-346769/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-346769/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-135080-12 MS	FB-01	Total/NA	Water	SM 4500 SO4 E	
400-135080-12 MSD	FB-01	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 346864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-2	MW-3	Total/NA	Water	SM 4500 Cl- E	
400-135080-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-135080-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
400-135080-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
400-135080-14	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-135080-15	FB-02	Total/NA	Water	SM 4500 Cl- E	
400-135080-16	EB-02	Total/NA	Water	SM 4500 Cl- E	
400-135080-17	DUP-02	Total/NA	Water	SM 4500 Cl- E	
MB 400-346864/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-346864/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-346864/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Field Service / Mobile Lab

Analysis Batch: 350664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total/NA	Water	Field Sampling	
400-135080-2	MW-3	Total/NA	Water	Field Sampling	
400-135080-3	MW-6	Total/NA	Water	Field Sampling	
400-135080-4	MW-7	Total/NA	Water	Field Sampling	
400-135080-5	MW-8	Total/NA	Water	Field Sampling	
400-135080-6	MW-9	Total/NA	Water	Field Sampling	
400-135080-7	MW-10	Total/NA	Water	Field Sampling	
400-135080-8	MW-11	Total/NA	Water	Field Sampling	
400-135080-9	MW-12	Total/NA	Water	Field Sampling	
400-135080-10	MW-13	Total/NA	Water	Field Sampling	
400-135080-11	MW-14	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-345689/1-A ^5
Matrix: Water
Analysis Batch: 345906

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 345689

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		03/14/17 12:47	03/15/17 11:40	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		03/14/17 12:47	03/15/17 11:40	5
Barium	0.00049	U	0.0025	0.00049	mg/L		03/14/17 12:47	03/15/17 11:40	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 11:40	5
Boron	0.021	U	0.050	0.021	mg/L		03/14/17 12:47	03/15/17 11:40	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		03/14/17 12:47	03/15/17 11:40	5
Calcium	0.13	U	0.25	0.13	mg/L		03/14/17 12:47	03/15/17 11:40	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		03/14/17 12:47	03/15/17 11:40	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		03/14/17 12:47	03/15/17 11:40	5
Lead	0.00035	U	0.0013	0.00035	mg/L		03/14/17 12:47	03/15/17 11:40	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		03/14/17 12:47	03/15/17 11:40	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		03/14/17 12:47	03/15/17 11:40	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		03/14/17 12:47	03/15/17 11:40	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		03/14/17 12:47	03/15/17 11:40	5

Lab Sample ID: LCS 400-345689/2-A
Matrix: Water
Analysis Batch: 345906

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 345689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0554		mg/L		111	80 - 120
Arsenic	0.0500	0.0524		mg/L		105	80 - 120
Barium	0.0500	0.0526		mg/L		105	80 - 120
Beryllium	0.0500	0.0472		mg/L		94	80 - 120
Boron	0.100	0.108		mg/L		108	80 - 120
Cadmium	0.0500	0.0525		mg/L		105	80 - 120
Calcium	5.00	4.98		mg/L		100	80 - 120
Chromium	0.0500	0.0509		mg/L		102	80 - 120
Cobalt	0.0500	0.0463		mg/L		93	80 - 120
Lead	0.0500	0.0504		mg/L		101	80 - 120
Lithium	0.0500	0.0468		mg/L		94	80 - 120
Molybdenum	0.100	0.104		mg/L		104	80 - 120
Selenium	0.0500	0.0520		mg/L		104	80 - 120
Thallium	0.0100	0.0105		mg/L		105	80 - 120

Lab Sample ID: 400-135080-2 MS
Matrix: Water
Analysis Batch: 345906

Client Sample ID: MW-3
Prep Type: Total Recoverable
Prep Batch: 345689

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0010	U	0.0500	0.0586		mg/L		117	75 - 125
Arsenic	0.00046	U	0.0500	0.0536		mg/L		107	75 - 125
Barium	0.022		0.0500	0.0727		mg/L		102	75 - 125
Beryllium	0.00034	U	0.0500	0.0510		mg/L		102	75 - 125
Boron	0.021	U	0.100	0.126	J3	mg/L		126	75 - 125
Cadmium	0.00034	U	0.0500	0.0538		mg/L		108	75 - 125
Calcium	1.9		5.00	6.77		mg/L		97	75 - 125
Chromium	0.0030		0.0500	0.0555		mg/L		105	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

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

Lab Sample ID: 400-135080-2 MS
Matrix: Water
Analysis Batch: 345906

Client Sample ID: MW-3
Prep Type: Total Recoverable
Prep Batch: 345689

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Cobalt	0.00040	U	0.0500	0.0483		mg/L		97	75 - 125	
Lead	0.00035	U	0.0500	0.0468		mg/L		94	75 - 125	
Lithium	0.013		0.0500	0.0627		mg/L		100	75 - 125	
Molybdenum	0.00085	U	0.100	0.113		mg/L		113	75 - 125	
Selenium	0.00024	U	0.0500	0.0558		mg/L		112	75 - 125	
Thallium	0.000085	U	0.0100	0.0107		mg/L		107	75 - 125	

Lab Sample ID: 400-135080-2 MSD
Matrix: Water
Analysis Batch: 345906

Client Sample ID: MW-3
Prep Type: Total Recoverable
Prep Batch: 345689

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
Antimony	0.0010	U	0.0500	0.0556		mg/L		111	75 - 125	5	20	
Arsenic	0.00046	U	0.0500	0.0528		mg/L		106	75 - 125	2	20	
Barium	0.022		0.0500	0.0729		mg/L		102	75 - 125	0	20	
Beryllium	0.00034	U	0.0500	0.0495		mg/L		99	75 - 125	3	20	
Boron	0.021	U	0.100	0.119		mg/L		119	75 - 125	6	20	
Cadmium	0.00034	U	0.0500	0.0541		mg/L		108	75 - 125	0	20	
Calcium	1.9		5.00	6.65		mg/L		95	75 - 125	2	20	
Chromium	0.0030		0.0500	0.0529		mg/L		100	75 - 125	5	20	
Cobalt	0.00040	U	0.0500	0.0465		mg/L		93	75 - 125	4	20	
Lead	0.00035	U	0.0500	0.0464		mg/L		93	75 - 125	1	20	
Lithium	0.013		0.0500	0.0594		mg/L		94	75 - 125	5	20	
Molybdenum	0.00085	U	0.100	0.105		mg/L		105	75 - 125	7	20	
Selenium	0.00024	U	0.0500	0.0523		mg/L		105	75 - 125	6	20	
Thallium	0.000085	U	0.0100	0.0107		mg/L		107	75 - 125	0	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-345683/14-A
Matrix: Water
Analysis Batch: 346037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 345683

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Mercury	0.000070	U	0.00020	0.000070	mg/L		03/14/17 12:21	03/16/17 13:46		1

Lab Sample ID: LCS 400-345683/15-A
Matrix: Water
Analysis Batch: 346037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 345683

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	
							Result	Qualifier
Mercury	0.00101	0.00104		mg/L		103	80 - 120	

Lab Sample ID: 400-135080-1 MS
Matrix: Water
Analysis Batch: 346037

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 345683

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
Mercury	0.000070	U	0.00201	0.00209		mg/L		104	80 - 120	

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Lab Sample ID: 400-135080-1 MSD
Matrix: Water
Analysis Batch: 346037

Client Sample ID: MW-2
Prep Type: Total/NA
Prep Batch: 345683

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.000070	U	0.00201	0.00198		mg/L		98	80 - 120	6	20

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

Lab Sample ID: MB 400-345609/1
Matrix: Water
Analysis Batch: 345609

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			03/14/17 08:50	1

Lab Sample ID: LCS 400-345609/2
Matrix: Water
Analysis Batch: 345609

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	272		mg/L		93	78 - 122

Lab Sample ID: 400-135080-1 DU
Matrix: Water
Analysis Batch: 345609

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	160		160		mg/L		0	5

Lab Sample ID: MB 400-345776/1
Matrix: Water
Analysis Batch: 345776

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			03/15/17 16:46	1

Lab Sample ID: LCS 400-345776/2
Matrix: Water
Analysis Batch: 345776

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: 400-135074-A-1 DU
Matrix: Water
Analysis Batch: 345776

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	230		238		mg/L		4	5

Lab Sample ID: 400-135074-A-2 DU
Matrix: Water
Analysis Batch: 345776

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	290		288		mg/L		0	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Lab Sample ID: MB 400-346006/1
Matrix: Water
Analysis Batch: 346006

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			03/16/17 16:35	1

Lab Sample ID: LCS 400-346006/2
Matrix: Water
Analysis Batch: 346006

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: 400-135149-B-4 DU
Matrix: Water
Analysis Batch: 346006

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	22		22.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-346763/6
Matrix: Water
Analysis Batch: 346763

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			03/22/17 13:33	1

Lab Sample ID: LCS 400-346763/7
Matrix: Water
Analysis Batch: 346763

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	32.4		mg/L		108	90 - 110

Lab Sample ID: MRL 400-346763/3
Matrix: Water
Analysis Batch: 346763

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	2.21		mg/L		111	50 - 150

Lab Sample ID: 400-135080-12 MS
Matrix: Water
Analysis Batch: 346763

Client Sample ID: FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	0.60	U	10.0	12.3	J3	mg/L		123	73 - 120

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

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

Lab Sample ID: 400-135080-12 MSD
Matrix: Water
Analysis Batch: 346763

Client Sample ID: FB-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	0.60	U	10.0	11.3	J3	mg/L		113	73 - 120	9	8

Lab Sample ID: MB 400-346864/6
Matrix: Water
Analysis Batch: 346864

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			03/23/17 08:15	1

Lab Sample ID: LCS 400-346864/7
Matrix: Water
Analysis Batch: 346864

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 400-346864/3
Matrix: Water
Analysis Batch: 346864

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	2.18		mg/L		109	50 - 150

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-346486/3
Matrix: Water
Analysis Batch: 346486

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 16:13	1

Lab Sample ID: LCS 400-346486/4
Matrix: Water
Analysis Batch: 346486

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: 400-135080-1 MS
Matrix: Water
Analysis Batch: 346486

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
Fluoride	0.21		1.00	1.26		mg/L		105	75 - 125

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-135080-1 MSD
Matrix: Water
Analysis Batch: 346486

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
Fluoride	0.21		1.00	1.24		mg/L		103	75 - 125	2	4

Lab Sample ID: 400-135080-9 DU
Matrix: Water
Analysis Batch: 346486

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.10		0.100		mg/L		0	4

Lab Sample ID: MB 400-346491/4
Matrix: Water
Analysis Batch: 346491

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			03/20/17 18:05	1

Lab Sample ID: LCS 400-346491/3
Matrix: Water
Analysis Batch: 346491

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

Lab Sample ID: 400-135080-17 MS
Matrix: Water
Analysis Batch: 346491

Client Sample ID: DUP-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.040	I	1.00	1.06		mg/L		102	75 - 125

Lab Sample ID: 400-135080-17 MSD
Matrix: Water
Analysis Batch: 346491

Client Sample ID: DUP-02
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	I	1.00	1.02		mg/L		98	75 - 125	4	4

Lab Sample ID: 400-135184-B-1 DU
Matrix: Water
Analysis Batch: 346491

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	U	0.032	U	mg/L		NC	4

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-346700/6
Matrix: Water
Analysis Batch: 346700

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			03/22/17 08:10	1

Lab Sample ID: LCS 400-346700/7
Matrix: Water
Analysis Batch: 346700

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 400-346700/3
Matrix: Water
Analysis Batch: 346700

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	I	mg/L		90	50 - 150

Lab Sample ID: 400-134925-A-6 MS
Matrix: Water
Analysis Batch: 346700

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	5.2		10.0	16.7		mg/L		115	77 - 128

Lab Sample ID: 400-134925-A-6 MSD
Matrix: Water
Analysis Batch: 346700

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
Sulfate	5.2		10.0	16.3		mg/L		111	77 - 128	2	5

Lab Sample ID: MB 400-346769/6
Matrix: Water
Analysis Batch: 346769

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			03/22/17 13:35	1

Lab Sample ID: LCS 400-346769/7
Matrix: Water
Analysis Batch: 346769

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 400-346769/3
Matrix: Water
Analysis Batch: 346769

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	4.78	I	mg/L		96	50 - 150

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
 SDG: CCR Smith Plant

Lab Sample ID: 400-135080-12 MS
Matrix: Water
Analysis Batch: 346769

Client Sample ID: FB-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.4	U	10.0	5.45	J3	mg/L		54	77 - 128

Lab Sample ID: 400-135080-12 MSD
Matrix: Water
Analysis Batch: 346769

Client Sample ID: FB-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	1.4	U	10.0	4.04	I J3	mg/L		40	77 - 128	30	5

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Chain of Custody Record

Client Information		Lab Pmt: Whitmire, Cheyenne R		Camera Tracking No(s):		COC No: 400-53432-23665.1	
Client Contact: Kristi Mitchell		E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 2		Job #: 400-135080	
Company: Gulf Power Company		Due Date Requested: TAT Requested (days):		Analysis Requested		Preservation Codes:	
Address: BIN 731 One Energy Place		City: Pensacola		State: FL		Zip: 32520	
Phone: 850-444-6427(Tel)		PO #: Purchase Order not required		MO #:		Project #: 40006609	
Email: krmitch@southerncco.com		SSOW#:		Field Sampling - Field Sampling Parameters		Special Instructions/Note:	
Project Name: CCR Smith Plant		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Site:		Matrix (W=water, S=solid, O=sewage, I=effluent)		Sample Date		Sample Time	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
MW-2		3-10-17		1455		G Water	
MW-3		3-10-17		1830		G Water	
MW-6		3-11-17		0936		G Water	
MW-7		3-11-17		0803		G Water	
MW-8		3-11-17		1214		G Water	
MW-9		3-11-17		1546		G Water	
MW-10		3-11-17		1650		G Water	
MW-11		3-11-17		1801		G Water	
MW-12		3-10-17		1310		G Water	
MW-13		3-11-17		1057		G Water	
MW-14		3-11-17		1333		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							
Deliverable Requested: I, II, III, IV LEVEL IV							
Empty Kit Relinquished by: _____ Date: _____							
Relinquished by: _____ Date: 3-13-17 0830							
Relinquished by: _____ Date: _____							
Relinquished by: _____ Date: _____							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Custody Seal No.: _____							
Cooler Temperature(s) °C and Other Remarks: 0.2, 0.0, 0.0 °C FPL-D							

Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R.		Carrier Tracking No(s):	
Client Contact: Kristi Mitchell		E-Mail: cheyenne.whitmire@testamericainc.com		COC No: 400-53432-23565.2	
Company: Gulf Power Company		Phone: 850-336-0192		Page: Page 2 of 2	
Address: BIN 731 One Energy Place		Due Date Requested:		Job #: 400-135080	
City: Pensacola		TAT Requested (days):		Preservation Codes:	
State, Zip: FL, 32520		PO #: Purchase Order not required		A - HCL M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA L - EDA Z - other (specify)	
Phone: 850-444-6427(Tel)		WO #:		Other:	
Email: krmitch@southernco.com		Project #:		Special Instructions/Note:	
Project Name: CCR Smith Plant		SSOW#:			
Site:					

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Seawater, Other)	Field Sampling - Field Sampling Parameters		Total Dissolved Solids, 4500 F C - Fluoride 6020 - Sp,As,Ba,B,Be,Ca,Cd,Cr,Cu,Pb,Li,Mo,Se,Ti,7470A - Mercury	Total Number of Containers	Special Instructions/Note:
					9315 Ra226, 9320 Ra228, Ra226Ra228, GPFC	9M4500 Cl - Chloride, 9M4500, SO4 E - Sulfate, 2540C -			
FB-01	3-11-17	0835	G	Water			X		
EB-01	3-11-17	0842	G	Water			X		
DUP-01	3-10-17	1730	G	Water			X		
FB-02	3-11-17	1720	G	Water			X		
EB-02	3-11-17	1730	G	Water			X		
DUP-02	3-11-17	1233	G	Water			X		
				Water					
				Water					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

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

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *[Signature]* Date: 3-13-17 0830
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____

Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____

Custody Seal No.: _____
 Δ Yes Δ No



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-135080-1
SDG Number: CCR Smith Plant

Login Number: 135080

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, 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-1
SDG: CCR Smith Plant

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: 400-135080-2

Client Project/Site: CCR Smith Plant

Sampling Event: CCR Smith Plant

For:

Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

4/17/2017 5:28:33 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Job ID: 400-135080-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-135080-2

RAD

Method(s) PrecSep_0: Radium 228 Prep Batch 160-299019: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 160-299019. 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 160-298998: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 160-298998. A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

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Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-135080-1	MW-2	Water	03/10/17 14:55	03/13/17 10:48
400-135080-2	MW-3	Water	03/10/17 18:30	03/13/17 10:48
400-135080-3	MW-6	Water	03/11/17 09:36	03/13/17 10:48
400-135080-4	MW-7	Water	03/11/17 08:03	03/13/17 10:48
400-135080-5	MW-8	Water	03/11/17 12:14	03/13/17 10:48
400-135080-6	MW-9	Water	03/11/17 15:46	03/13/17 10:48
400-135080-7	MW-10	Water	03/11/17 16:50	03/13/17 10:48
400-135080-8	MW-11	Water	03/11/17 18:01	03/13/17 10:48
400-135080-9	MW-12	Water	03/10/17 13:10	03/13/17 10:48
400-135080-10	MW-13	Water	03/11/17 10:57	03/13/17 10:48
400-135080-11	MW-14	Water	03/11/17 13:33	03/13/17 10:48
400-135080-12	FB-01	Water	03/11/17 08:35	03/13/17 10:48
400-135080-13	EB-01	Water	03/11/17 08:42	03/13/17 10:48
400-135080-14	DUP-01	Water	03/10/17 17:30	03/13/17 10:48
400-135080-15	FB-02	Water	03/11/17 17:20	03/13/17 10:48
400-135080-16	EB-02	Water	03/11/17 17:30	03/13/17 10:48
400-135080-17	DUP-02	Water	03/11/17 12:33	03/13/17 10:48

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-2
Date Collected: 03/10/17 14:55
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-1
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		0.202	0.235	1.00	0.0645	pCi/L	03/22/17 09:03	04/13/17 08:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					03/22/17 09:03	04/13/17 08:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.441		0.240	0.244	1.00	0.357	pCi/L	03/22/17 09:55	04/05/17 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					03/22/17 09:55	04/05/17 14:27	1
Y Carrier	84.9		40 - 110					03/22/17 09:55	04/05/17 14:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.78		0.314	0.339	5.00	0.357	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-3
Date Collected: 03/10/17 18:30
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-2
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	1.04		0.182	0.205	1.00	0.0688	pCi/L	03/22/17 09:03	04/13/17 08:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					03/22/17 09:03	04/13/17 08:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.463		0.258	0.261	1.00	0.386	pCi/L	03/22/17 09:55	04/05/17 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					03/22/17 09:55	04/05/17 14:27	1
Y Carrier	84.5		40 - 110					03/22/17 09:55	04/05/17 14:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.50		0.316	0.332	5.00	0.386	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-6
Date Collected: 03/11/17 09:36
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-3
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	9.94		0.534	1.04	1.00	0.0664	pCi/L	03/22/17 09:03	04/13/17 08:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/22/17 09:03	04/13/17 08:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	18.9		0.874	1.95	1.00	0.330	pCi/L	03/22/17 09:55	04/05/17 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.1		40 - 110					03/22/17 09:55	04/05/17 14:27	1
Y Carrier	85.6		40 - 110					03/22/17 09:55	04/05/17 14:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	28.8		1.02	2.21	5.00	0.330	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-7
Date Collected: 03/11/17 08:03
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-4
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	19.4		0.756	1.90	1.00	0.0653	pCi/L	03/22/17 09:03	04/13/17 08:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					03/22/17 09:03	04/13/17 08:21	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.03		0.504	0.684	1.00	0.378	pCi/L	03/22/17 09:55	04/05/17 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		40 - 110					03/22/17 09:55	04/05/17 14:27	1
Y Carrier	84.9		40 - 110					03/22/17 09:55	04/05/17 14:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	24.4		0.909	2.02	5.00	0.378	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-8
Date Collected: 03/11/17 12:14
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-5
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	13.8		0.655	1.40	1.00	0.100	pCi/L	03/22/17 09:03	04/13/17 08:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					03/22/17 09:03	04/13/17 08:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	23.1		1.01	2.36	1.00	0.337	pCi/L	03/22/17 09:55	04/05/17 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					03/22/17 09:55	04/05/17 14:27	1
Y Carrier	86.7		40 - 110					03/22/17 09:55	04/05/17 14:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	36.9		1.21	2.74	5.00	0.337	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-9
Date Collected: 03/11/17 15:46
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-6
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	11.4		0.579	1.18	1.00	0.0963	pCi/L	03/22/17 09:03	04/13/17 08:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					03/22/17 09:03	04/13/17 08:26	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	10.6		0.682	1.19	1.00	0.325	pCi/L	03/22/17 09:55	04/05/17 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					03/22/17 09:55	04/05/17 14:27	1
Y Carrier	86.7		40 - 110					03/22/17 09:55	04/05/17 14:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	22.0		0.894	1.67	5.00	0.325	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-10
Date Collected: 03/11/17 16:50
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-7
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	6.78		0.443	0.754	1.00	0.110	pCi/L	03/22/17 09:03	04/13/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					03/22/17 09:03	04/13/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	16.0		0.874	1.71	1.00	0.381	pCi/L	03/22/17 09:55	04/05/17 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					03/22/17 09:55	04/05/17 14:28	1
Y Carrier	84.5		40 - 110					03/22/17 09:55	04/05/17 14:28	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	22.8		0.979	1.87	5.00	0.381	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-11
Date Collected: 03/11/17 18:01
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-8
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	18.9		0.732	1.85	1.00	0.0914	pCi/L	03/22/17 09:03	04/13/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					03/22/17 09:03	04/13/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.50		0.600	0.914	1.00	0.400	pCi/L	03/22/17 09:55	04/05/17 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					03/22/17 09:55	04/05/17 14:28	1
Y Carrier	82.2		40 - 110					03/22/17 09:55	04/05/17 14:28	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	26.4		0.946	2.06	5.00	0.400	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-12
Date Collected: 03/10/17 13:10
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-9
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	1.67		0.228	0.273	1.00	0.0979	pCi/L	03/22/17 09:03	04/13/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/22/17 09:03	04/13/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.168	U	0.212	0.213	1.00	0.352	pCi/L	03/22/17 09:55	04/05/17 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/22/17 09:55	04/05/17 14:28	1
Y Carrier	83.4		40 - 110					03/22/17 09:55	04/05/17 14:28	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	1.84		0.311	0.346	5.00	0.352	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-13
Date Collected: 03/11/17 10:57
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-10
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	8.42		0.495	0.905	1.00	0.0973	pCi/L	03/22/17 09:03	04/13/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					03/22/17 09:03	04/13/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	7.38		0.577	0.891	1.00	0.350	pCi/L	03/22/17 09:55	04/05/17 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		40 - 110					03/22/17 09:55	04/05/17 14:28	1
Y Carrier	87.1		40 - 110					03/22/17 09:55	04/05/17 14:28	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	15.8		0.760	1.27	5.00	0.350	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-14
Date Collected: 03/11/17 13:33
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-11
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	3.12		0.309	0.418	1.00	0.108	pCi/L	03/22/17 09:03	04/13/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					03/22/17 09:03	04/13/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.63		0.498	0.655	1.00	0.422	pCi/L	03/22/17 09:55	04/05/17 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					03/22/17 09:55	04/05/17 14:28	1
Y Carrier	84.5		40 - 110					03/22/17 09:55	04/05/17 14:28	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	7.75		0.586	0.777	5.00	0.422	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: FB-01
Date Collected: 03/11/17 08:35
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-12
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	0.123		0.0779	0.0787	1.00	0.104	pCi/L	03/22/17 09:03	04/13/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					03/22/17 09:03	04/13/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.106	U	0.197	0.197	1.00	0.336	pCi/L	03/22/17 09:55	04/05/17 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					03/22/17 09:55	04/05/17 14:28	1
Y Carrier	84.9		40 - 110					03/22/17 09:55	04/05/17 14:28	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.229	U	0.212	0.212	5.00	0.336	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: EB-01
Date Collected: 03/11/17 08:42
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-13
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	0.00165	U	0.0625	0.0625	1.00	0.127	pCi/L	03/22/17 09:03	04/13/17 08:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					03/22/17 09:03	04/13/17 08:29	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.537		0.293	0.298	1.00	0.446	pCi/L	03/22/17 09:55	04/05/17 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		40 - 110					03/22/17 09:55	04/05/17 14:28	1
Y Carrier	84.5		40 - 110					03/22/17 09:55	04/05/17 14:28	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.538		0.300	0.304	5.00	0.446	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: DUP-01

Lab Sample ID: 400-135080-14

Date Collected: 03/10/17 17:30

Matrix: Water

Date Received: 03/13/17 10:48

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.934		0.187	0.205	1.00	0.112	pCi/L	03/22/17 09:03	04/13/17 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					03/22/17 09:03	04/13/17 08:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.543		0.293	0.297	1.00	0.444	pCi/L	03/22/17 09:55	04/05/17 14:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					03/22/17 09:55	04/05/17 14:30	1
Y Carrier	87.9		40 - 110					03/22/17 09:55	04/05/17 14:30	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		0.348	0.361	5.00	0.444	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: FB-02
Date Collected: 03/11/17 17:20
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-15
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0138	U	0.0423	0.0423	1.00	0.102	pCi/L	03/22/17 09:03	04/13/17 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					03/22/17 09:03	04/13/17 08:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.130	U	0.245	0.245	1.00	0.415	pCi/L	03/22/17 09:55	04/05/17 14:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		40 - 110					03/22/17 09:55	04/05/17 14:30	1
Y Carrier	85.6		40 - 110					03/22/17 09:55	04/05/17 14:30	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	0.116	U	0.248	0.249	5.00	0.415	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: EB-02
Date Collected: 03/11/17 17:30
Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-16
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0111	U	0.0532	0.0532	1.00	0.107	pCi/L	03/22/17 09:03	04/13/17 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					03/22/17 09:03	04/13/17 08:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0359	U	0.240	0.240	1.00	0.430	pCi/L	03/22/17 09:55	04/05/17 14:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.7		40 - 110					03/22/17 09:55	04/05/17 14:30	1
Y Carrier	89.0		40 - 110					03/22/17 09:55	04/05/17 14:30	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	-0.0249	U	0.246	0.246	5.00	0.430	pCi/L		04/13/17 14:48	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: DUP-02

Date Collected: 03/11/17 12:33

Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-17

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	3.26		0.327	0.439	1.00	0.108	pCi/L	03/22/17 09:03	04/13/17 08:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					03/22/17 09:03	04/13/17 08:30	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.97		0.760	0.938	1.00	0.757	pCi/L	03/22/17 09:55	04/05/17 14:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					03/22/17 09:55	04/05/17 14:30	1
Y Carrier	51.2		40 - 110					03/22/17 09:55	04/05/17 14:30	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	9.23		0.828	1.04	5.00	0.757	pCi/L		04/13/17 14:48	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-2

Date Collected: 03/10/17 14:55

Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303351	04/13/17 08:21	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:27	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: MW-3

Date Collected: 03/10/17 18:30

Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303351	04/13/17 08:21	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:27	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: MW-6

Date Collected: 03/11/17 09:36

Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303351	04/13/17 08:21	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:27	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: MW-7

Date Collected: 03/11/17 08:03

Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303351	04/13/17 08:21	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:27	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-8

Lab Sample ID: 400-135080-5

Date Collected: 03/11/17 12:14

Matrix: Water

Date Received: 03/13/17 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303352	04/13/17 08:26	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:27	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: MW-9

Lab Sample ID: 400-135080-6

Date Collected: 03/11/17 15:46

Matrix: Water

Date Received: 03/13/17 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303352	04/13/17 08:26	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:27	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: MW-10

Lab Sample ID: 400-135080-7

Date Collected: 03/11/17 16:50

Matrix: Water

Date Received: 03/13/17 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303352	04/13/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:28	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: MW-11

Lab Sample ID: 400-135080-8

Date Collected: 03/11/17 18:01

Matrix: Water

Date Received: 03/13/17 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303352	04/13/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:28	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: MW-12

Date Collected: 03/10/17 13:10

Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303352	04/13/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:28	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: MW-13

Date Collected: 03/11/17 10:57

Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303352	04/13/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:28	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: MW-14

Date Collected: 03/11/17 13:33

Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303352	04/13/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:28	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: FB-01

Date Collected: 03/11/17 08:35

Date Received: 03/13/17 10:48

Lab Sample ID: 400-135080-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303352	04/13/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:28	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: EB-01

Lab Sample ID: 400-135080-13

Date Collected: 03/11/17 08:42

Matrix: Water

Date Received: 03/13/17 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303348	04/13/17 08:29	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301549	04/05/17 14:28	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: DUP-01

Lab Sample ID: 400-135080-14

Date Collected: 03/10/17 17:30

Matrix: Water

Date Received: 03/13/17 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303348	04/13/17 08:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301550	04/05/17 14:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: FB-02

Lab Sample ID: 400-135080-15

Date Collected: 03/11/17 17:20

Matrix: Water

Date Received: 03/13/17 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303348	04/13/17 08:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301550	04/05/17 14:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Client Sample ID: EB-02

Lab Sample ID: 400-135080-16

Date Collected: 03/11/17 17:30

Matrix: Water

Date Received: 03/13/17 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303348	04/13/17 08:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301550	04/05/17 14:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Client Sample ID: DUP-02

Lab Sample ID: 400-135080-17

Date Collected: 03/11/17 12:33

Matrix: Water

Date Received: 03/13/17 10:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			298998	03/22/17 09:03	LDE	TAL SL
Total/NA	Analysis	9315		1	303348	04/13/17 08:30	ALD	TAL SL
Total/NA	Prep	PrecSep_0			299019	03/22/17 09:55	LDE	TAL SL
Total/NA	Analysis	9320		1	301550	04/05/17 14:30	MLK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	303440	04/13/17 14:48	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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Rad

Prep Batch: 298998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total/NA	Water	PrecSep-21	
400-135080-2	MW-3	Total/NA	Water	PrecSep-21	
400-135080-3	MW-6	Total/NA	Water	PrecSep-21	
400-135080-4	MW-7	Total/NA	Water	PrecSep-21	
400-135080-5	MW-8	Total/NA	Water	PrecSep-21	
400-135080-6	MW-9	Total/NA	Water	PrecSep-21	
400-135080-7	MW-10	Total/NA	Water	PrecSep-21	
400-135080-8	MW-11	Total/NA	Water	PrecSep-21	
400-135080-9	MW-12	Total/NA	Water	PrecSep-21	
400-135080-10	MW-13	Total/NA	Water	PrecSep-21	
400-135080-11	MW-14	Total/NA	Water	PrecSep-21	
400-135080-12	FB-01	Total/NA	Water	PrecSep-21	
400-135080-13	EB-01	Total/NA	Water	PrecSep-21	
400-135080-14	DUP-01	Total/NA	Water	PrecSep-21	
400-135080-15	FB-02	Total/NA	Water	PrecSep-21	
400-135080-16	EB-02	Total/NA	Water	PrecSep-21	
400-135080-17	DUP-02	Total/NA	Water	PrecSep-21	
MB 160-298998/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-298998/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-298998/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 299019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-135080-1	MW-2	Total/NA	Water	PrecSep_0	
400-135080-2	MW-3	Total/NA	Water	PrecSep_0	
400-135080-3	MW-6	Total/NA	Water	PrecSep_0	
400-135080-4	MW-7	Total/NA	Water	PrecSep_0	
400-135080-5	MW-8	Total/NA	Water	PrecSep_0	
400-135080-6	MW-9	Total/NA	Water	PrecSep_0	
400-135080-7	MW-10	Total/NA	Water	PrecSep_0	
400-135080-8	MW-11	Total/NA	Water	PrecSep_0	
400-135080-9	MW-12	Total/NA	Water	PrecSep_0	
400-135080-10	MW-13	Total/NA	Water	PrecSep_0	
400-135080-11	MW-14	Total/NA	Water	PrecSep_0	
400-135080-12	FB-01	Total/NA	Water	PrecSep_0	
400-135080-13	EB-01	Total/NA	Water	PrecSep_0	
400-135080-14	DUP-01	Total/NA	Water	PrecSep_0	
400-135080-15	FB-02	Total/NA	Water	PrecSep_0	
400-135080-16	EB-02	Total/NA	Water	PrecSep_0	
400-135080-17	DUP-02	Total/NA	Water	PrecSep_0	
MB 160-299019/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-299019/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-299019/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-298998/1-A
Matrix: Water
Analysis Batch: 303351

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 298998

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02382	U	0.0420	0.0421	1.00	0.0757	pCi/L	03/22/17 09:03	04/13/17 08:20	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/22/17 09:03	04/13/17 08:20	1

Lab Sample ID: LCS 160-298998/2-A
Matrix: Water
Analysis Batch: 303351

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 298998

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	11.47		1.18	1.00	0.112	pCi/L	101	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.9		40 - 110						

Lab Sample ID: LCSD 160-298998/3-A
Matrix: Water
Analysis Batch: 303351

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 298998

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.4	9.262		0.984	1.00	0.0732	pCi/L	82	68 - 137	1.02	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	96.8		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-299019/1-A
Matrix: Water
Analysis Batch: 301549

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 299019

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1410	U	0.241	0.242	1.00	0.407	pCi/L	03/22/17 09:55	04/05/17 14:27	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					03/22/17 09:55	04/05/17 14:27	1
Y Carrier	86.4		40 - 110					03/22/17 09:55	04/05/17 14:27	1

QC Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

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

Lab Sample ID: LCS 160-299019/2-A
Matrix: Water
Analysis Batch: 301549

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 299019

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.6	13.85		1.50	1.00	0.413	pCi/L	102	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.9		40 - 110
Y Carrier	84.9		40 - 110

Lab Sample ID: LCSD 160-299019/3-A
Matrix: Water
Analysis Batch: 301549

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 299019

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	13.6	14.46		1.55	1.00	0.373	pCi/L	106	56 - 140	0.20	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	96.8		40 - 110
Y Carrier	83.7		40 - 110

Chain of Custody Record

Client Information
 Client Contact: Kristi Mitchell
 Phone: 850-336-0192
 Company: Gulf Power Company
 Address: BIN 731 One Energy Place
 City: Pensacola
 State: FL, Zip: 32520
 Phone: 850-444-6427(Tel)
 Email: krmitch@southernco.com
 Project Name: CCR Smith Plant
 Site:

Lab PMT: Whitimire, Cheyenne R
 E-Mail: cheyenne.whitimire@testamericainc.com
 Camer Tracking No(s):
 COC No: 400-53432-23665.1
 Page: Page 1 of 2
 Job #: 400-135080

Analysis Requested
 Due Date Requested:
 TAT Requested (days):
 PO #: Purchase Order not required
 MO #:
 Project #: 40006609
 SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other/soil, BT=trace, A=air)	Field Sampling - Field Sampling Parameters													Special Instructions/Note:
					Mercury	6020 - Sp,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,Mo,Se,Tl,7470A -	5M4500 Cl - Chloride, 5M4500 SO4 - Sulfate, 2540C -	9315 Ra226, 9320 Ra228, Ra226Ra228, GFPC	9315 Ra226, 9320 Ra228, Ra226Ra228, GFPC	5M4500 Cl - Chloride, 5M4500 SO4 - Sulfate, 2540C -	6020 - Sp,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,Mo,Se,Tl,7470A -	Mercury	9315 Ra226, 9320 Ra228, Ra226Ra228, GFPC	5M4500 Cl - Chloride, 5M4500 SO4 - Sulfate, 2540C -	6020 - Sp,As,Ba,Bi,Be,Ca,Cd,Cr,Cu,Pb,Mo,Se,Tl,7470A -	Mercury		
MW-2	3-10-17	1455	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-3	3-10-17	1830	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-6	3-11-17	0936	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-7	3-11-17	0803	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-8	3-11-17	1214	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-9	3-11-17	1546	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-10	3-11-17	1650	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-11	3-11-17	1801	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-12	3-10-17	1310	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-13	3-11-17	1057	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		
MW-14	3-11-17	1333	G	Water	X	X	X	X	X	X	X	X	X	X	X	X		

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV **LEVEL IV**

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: 3-13-17 0830
 Received by: [Signature] Date/Time: 3-13-17 0830
 Received by: [Signature] Date/Time: 3-13-17 0830

Company: [Signature]
 Cooler Temperature(s) °C and Other Remarks: 0.2, 0.0, 0.0 °C FPL-D

Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-135080-2

Login Number: 135080

List Source: TestAmerica Pensacola

List Number: 1

Creator: Siddoway, Benjamin

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-135080-2

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: 400-137886-1

Client Project/Site: CCR Smith Plant

Sampling Event: CCR Smith Plant

For:

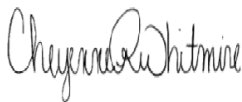
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

6/8/2017 7:15:42 PM

Cheyenne Whitmire, Project Manager II

(850)471-6222

cheyenne.whitmire@testamericainc.com

LINKS

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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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Job ID: 400-137886-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-137886-1

Metals

Method(s) 6020: The method blank for preparation batch 354035 and analytical batch 354173 contained Calcium 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) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-6 (400-137886-3), MW-7 (400-137886-4), MW-8 (400-137886-5), MW-9 (400-137886-6), MW-10 (400-137886-7), MW-11 (400-137886-8), MW-13 (400-137886-10) and MW-14 (400-137886-11). Elevated reporting limits (RLs) are provided.

Method(s) 6020: The continuing calibration verification (CCV) associated with batch 354388 recovered above the upper control limit for Arsenic, Cadmium, Molybdenum, and Antimony. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (MB 400-354035/1-A ^5).

Method(s) 6020: The method blank for preparation batch 354493 and analytical batch 354767 contained Barium 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) 6020: The following sample was diluted to bring the concentration of target analytes within the calibration range: DUP-02 (400-137886-15). Elevated reporting limits (RLs) are provided.

General Chemistry

Method(s) SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-12 (400-137886-9) and DUP-01 (400-137886-12). Elevated reporting limits (RLs) are provided.

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-2

Lab Sample ID: 400-137886-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.021		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	43		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0024	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Boron - RA	0.23		0.050	0.021	mg/L	5		6020	Total Recoverable
Lithium - RA	0.0073		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	190		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	0.23		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	6.7				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-3

Lab Sample ID: 400-137886-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.017		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	1.7		0.25	0.13	mg/L	5		6020	Total Recoverable
Boron - RA	0.18		0.050	0.021	mg/L	5		6020	Total Recoverable
Lithium - RA	0.0096		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	42		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	12		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: 400-137886-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00090	I	0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.067		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium - DL	330		1.3	0.63	mg/L	25		6020	Total Recoverable
Boron - DL2	9.4		1.0	0.42	mg/L	100		6020	Total Recoverable
Beryllium - RA	0.00093	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium - RA	0.011		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	6000		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	3600		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	570		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	4.96				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 400-137886-4

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 400-137886-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0015		0.0013	0.00046	mg/L	5		6020	Total
Barium	0.065		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0011	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.0036	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	2.7		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	210		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3300		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	1600		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	600		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.09				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 400-137886-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0013		0.0013	0.00046	mg/L	5		6020	Total
Barium	0.063		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium - DL	570		2.5	1.3	mg/L	50		6020	Total Recoverable
Boron - DL2	14		1.0	0.42	mg/L	100		6020	Total Recoverable
Beryllium - RA	0.0012	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium - RA	0.0067		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	6400		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	3500		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	840		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	4.52				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-9

Lab Sample ID: 400-137886-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0018		0.0013	0.00046	mg/L	5		6020	Total
Barium	0.10		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium - DL	380		1.3	0.63	mg/L	25		6020	Total Recoverable
Boron - DL2	10		1.0	0.42	mg/L	100		6020	Total Recoverable
Lithium - RA	0.0048	I	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	5200		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2600		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	670		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.74				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-10

Lab Sample ID: 400-137886-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0032		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.12		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Molybdenum	0.0030	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Calcium - DL	560		2.5	1.3	mg/L	50		6020	Total Recoverable
Boron - DL2	12		1.0	0.42	mg/L	100		6020	Total Recoverable
Beryllium - RA	0.00037	I	0.0025	0.00034	mg/L	5		6020	Total Recoverable
Lithium - RA	0.0044	I	0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	6200		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	3000		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	770		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	5.12				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-137886-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.028		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.087		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	110		0.25	0.13	mg/L	5		6020	Total Recoverable
Chromium	0.0040		0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.018		0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	4.1		0.25	0.11	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3600		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2000		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	170	I	500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.61				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-137886-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.013		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Calcium	31		0.25	0.13	mg/L	5		6020	Total Recoverable
Boron - RA	0.33		0.050	0.021	mg/L	5		6020	Total Recoverable
Lithium - RA	0.0098		0.0050	0.0032	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	490		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	200		20	6.0	mg/L	10		SM 4500 Cl- E	Total/NA
Fluoride	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	5.95				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-13

Lab Sample ID: 400-137886-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	21		2.0	0.84	mg/L	200		6020	Total
Calcium - DL	840		10	5.0	mg/L	200		6020	Total
Arsenic - RA	0.00060	I	0.0013	0.00046	mg/L	5		6020	Total
Barium - RA	0.12		0.0025	0.00049	mg/L	5		6020	Total
Lithium - RA	0.28		0.0050	0.0032	mg/L	5		6020	Total
Molybdenum - RA	0.0012	I	0.015	0.00085	mg/L	5		6020	Total
Total Dissolved Solids	9600		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	3600		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.060	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	750		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	7.21				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-137886-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0041		0.0013	0.00046	mg/L	5		6020	Total
Barium	0.059		0.0025	0.00049	mg/L	5		6020	Total
Molybdenum	0.015		0.015	0.00085	mg/L	5		6020	Total
Calcium - DL	300		1.3	0.63	mg/L	25		6020	Total
Boron - DL2	13		1.0	0.42	mg/L	100		6020	Total
Total Dissolved Solids	5600		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2600		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.050	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	560		500	140	mg/L	100		SM 4500 SO4 E	Total/NA
Field pH	6.66				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-137886-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.014		0.0025	0.00049	mg/L	5		6020	Total
Calcium	31		0.25	0.13	mg/L	5		6020	Total
Boron - RA	0.052		0.050	0.021	mg/L	5		6020	Total
Lithium - RA	0.0092		0.0050	0.0032	mg/L	5		6020	Total
Total Dissolved Solids	460		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	200		20	6.0	mg/L	10		SM 4500 Cl- E	Total/NA
Fluoride	0.10		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: EB-01

Lab Sample ID: 400-137886-13

No Detections.

Client Sample ID: FB-01

Lab Sample ID: 400-137886-14

No Detections.

Client Sample ID: DUP-02

Lab Sample ID: 400-137886-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0013	0.00046	mg/L	5		6020	Total Recoverable
Barium	0.060		0.0025	0.00049	mg/L	5		6020	Total Recoverable
Chromium	0.0012	I	0.0025	0.0011	mg/L	5		6020	Total Recoverable
Molybdenum	0.0050	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Boron - DL	2.7		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	210		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3300		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	1500		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	600		500	140	mg/L	100		SM 4500 SO4 E	Total/NA

Client Sample ID: EB-02

Lab Sample ID: 400-137886-16

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.0026	I	0.015	0.00085	mg/L	5		6020	Total Recoverable

Client Sample ID: FB-02

Lab Sample ID: 400-137886-17

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.0011	I	0.015	0.00085	mg/L	5		6020	Total Recoverable
Selenium	0.00025	I	0.0013	0.00024	mg/L	5		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-137886-1	MW-2	Water	05/11/17 11:17	05/13/17 08:15
400-137886-2	MW-3	Water	05/11/17 14:18	05/13/17 08:15
400-137886-3	MW-6	Water	05/11/17 15:34	05/13/17 08:15
400-137886-4	MW-7	Water	05/12/17 07:42	05/13/17 08:15
400-137886-5	MW-8	Water	05/12/17 14:27	05/13/17 08:15
400-137886-6	MW-9	Water	05/12/17 12:07	05/13/17 08:15
400-137886-7	MW-10	Water	05/12/17 11:00	05/13/17 08:15
400-137886-8	MW-11	Water	05/12/17 09:09	05/13/17 08:15
400-137886-9	MW-12	Water	05/11/17 09:56	05/13/17 08:15
400-137886-10	MW-13	Water	05/12/17 15:21	05/13/17 08:15
400-137886-11	MW-14	Water	05/12/17 13:27	05/13/17 08:15
400-137886-12	DUP-01	Water	05/11/17 08:56	05/13/17 08:15
400-137886-13	EB-01	Water	05/12/17 12:25	05/13/17 08:15
400-137886-14	FB-01	Water	05/12/17 11:15	05/13/17 08:15
400-137886-15	DUP-02	Water	05/12/17 06:42	05/13/17 08:15
400-137886-16	EB-02	Water	05/12/17 15:30	05/13/17 08:15
400-137886-17	FB-02	Water	05/12/17 14:00	05/13/17 08:15

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-2
Date Collected: 05/11/17 11:17
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 01:04	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 01:04	5
Barium	0.021		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 01:04	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 01:04	5
Calcium	43		0.25	0.13	mg/L		05/18/17 13:40	05/19/17 01:04	5
Chromium	0.0024	I	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 01:04	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 01:04	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 01:04	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 01:04	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 01:04	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 15:38	5
Boron	0.23		0.050	0.021	mg/L		05/18/17 13:40	05/19/17 15:38	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 15:38	5
Lithium	0.0073		0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 15:38	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:02	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	190		5.0	3.4	mg/L			05/15/17 13:29	1
Chloride	11		2.0	0.60	mg/L			05/17/17 09:05	1
Fluoride	0.23		0.10	0.032	mg/L			05/18/17 18:18	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/17/17 09:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.7				SU			05/11/17 11:17	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-3
Date Collected: 05/11/17 14:18
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 01:09	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 01:09	5
Barium	0.017		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 01:09	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 01:09	5
Calcium	1.7		0.25	0.13	mg/L		05/18/17 13:40	05/19/17 01:09	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 01:09	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 01:09	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 01:09	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 01:09	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 01:09	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 15:42	5
Boron	0.18		0.050	0.021	mg/L		05/18/17 13:40	05/19/17 15:42	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 15:42	5
Lithium	0.0096		0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 15:42	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	42		5.0	3.4	mg/L			05/15/17 13:29	1
Chloride	12		2.0	0.60	mg/L			05/17/17 09:05	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/18/17 18:20	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/17/17 09:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.76				SU			05/11/17 14:18	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-6
Date Collected: 05/11/17 15:34
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 01:13	5
Arsenic	0.00090	I	0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 01:13	5
Barium	0.067		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 01:13	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 01:13	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 01:13	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 01:13	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 01:13	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 01:13	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 01:13	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	330		1.3	0.63	mg/L		05/18/17 13:40	05/19/17 16:27	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.4		1.0	0.42	mg/L		05/18/17 13:40	05/19/17 16:32	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00093	I	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 16:23	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 16:23	5
Lithium	0.011		0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 16:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6000		25	17	mg/L			05/15/17 13:29	1
Chloride	3600		200	60	mg/L			05/17/17 09:08	100
Fluoride	0.040	I	0.10	0.032	mg/L			05/25/17 11:59	1
Sulfate	570		500	140	mg/L			05/17/17 09:14	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.96				SU			05/11/17 15:34	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-7
Date Collected: 05/12/17 07:42
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-4
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 01:18	5
Arsenic	0.0015		0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 01:18	5
Barium	0.065		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 01:18	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 01:18	5
Chromium	0.0011	I	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 01:18	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 01:18	5
Molybdenum	0.0036	I	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 01:18	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 01:18	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 01:18	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.7		0.25	0.11	mg/L		05/18/17 13:40	05/19/17 16:41	25
Calcium	210		1.3	0.63	mg/L		05/18/17 13:40	05/19/17 16:41	25

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 16:36	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 16:36	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 16:36	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3300		25	17	mg/L			05/15/17 13:29	1
Chloride	1600		200	60	mg/L			05/17/17 09:08	100
Fluoride	0.040	I	0.10	0.032	mg/L			05/25/17 12:08	1
Sulfate	600		500	140	mg/L			05/17/17 09:14	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.09				SU			05/12/17 07:42	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-8
Date Collected: 05/12/17 14:27
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 01:22	5
Arsenic	0.0013		0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 01:22	5
Barium	0.063		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 01:22	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 01:22	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 01:22	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 01:22	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 01:22	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 01:22	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 01:22	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	570		2.5	1.3	mg/L		05/18/17 13:40	05/19/17 16:50	50

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	14		1.0	0.42	mg/L		05/18/17 13:40	05/19/17 17:17	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.0012	I	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 16:45	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 16:45	5
Lithium	0.0067		0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 16:45	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6400		25	17	mg/L			05/15/17 13:29	1
Chloride	3500		200	60	mg/L			05/17/17 09:08	100
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 12:26	1
Sulfate	840		500	140	mg/L			05/17/17 09:14	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.52				SU			05/12/17 14:27	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-9
Date Collected: 05/12/17 12:07
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-6
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 01:49	5
Arsenic	0.0018		0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 01:49	5
Barium	0.10		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 01:49	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 01:49	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 01:49	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 01:49	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 01:49	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 01:49	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 01:49	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	380		1.3	0.63	mg/L		05/18/17 13:40	05/19/17 17:26	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	10		1.0	0.42	mg/L		05/18/17 13:40	05/19/17 17:30	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 17:22	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 17:22	5
Lithium	0.0048	I	0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 17:22	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5200		25	17	mg/L			05/15/17 13:29	1
Chloride	2600		200	60	mg/L			05/17/17 09:08	100
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 12:28	1
Sulfate	670		500	140	mg/L			05/17/17 09:14	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.74				SU			05/12/17 12:07	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-10
Date Collected: 05/12/17 11:00
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-7
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 01:54	5
Arsenic	0.0032		0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 01:54	5
Barium	0.12		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 01:54	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 01:54	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 01:54	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 01:54	5
Molybdenum	0.0030	I	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 01:54	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 01:54	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 01:54	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	560		2.5	1.3	mg/L		05/18/17 13:40	05/19/17 17:39	50

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		1.0	0.42	mg/L		05/18/17 13:40	05/19/17 17:44	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00037	I	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 17:35	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 17:35	5
Lithium	0.0044	I	0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 17:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6200		25	17	mg/L			05/16/17 15:49	1
Chloride	3000		200	60	mg/L			05/17/17 09:08	100
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 12:32	1
Sulfate	770		500	140	mg/L			05/17/17 09:19	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.12				SU			05/12/17 11:00	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-11
Date Collected: 05/12/17 09:09
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-8
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 01:58	5
Arsenic	0.028		0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 01:58	5
Barium	0.087		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 01:58	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 01:58	5
Calcium	110		0.25	0.13	mg/L		05/18/17 13:40	05/19/17 01:58	5
Chromium	0.0040		0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 01:58	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 01:58	5
Molybdenum	0.018		0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 01:58	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 01:58	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 01:58	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4.1		0.25	0.11	mg/L		05/18/17 13:40	05/19/17 17:53	25

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 17:48	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 17:48	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 17:48	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:22	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3600		25	17	mg/L			05/16/17 15:49	1
Chloride	2000		200	60	mg/L			05/17/17 09:08	100
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 12:34	1
Sulfate	170	I	500	140	mg/L			05/17/17 09:19	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.61				SU			05/12/17 09:09	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-12
Date Collected: 05/11/17 09:56
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-9
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 02:03	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 02:03	5
Barium	0.013		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 02:03	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 02:03	5
Calcium	31		0.25	0.13	mg/L		05/18/17 13:40	05/19/17 02:03	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 02:03	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 02:03	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 02:03	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 02:03	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 02:03	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 15:33	5
Boron	0.33		0.050	0.021	mg/L		05/18/17 13:40	05/19/17 15:33	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 15:33	5
Lithium	0.0098		0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 15:33	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:24	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	490		5.0	3.4	mg/L			05/15/17 13:29	1
Chloride	200		20	6.0	mg/L			05/17/17 09:40	10
Fluoride	0.10		0.10	0.032	mg/L			05/25/17 12:36	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/17/17 09:00	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.95				SU			05/11/17 09:56	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-13
Date Collected: 05/12/17 15:21
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-10
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 02:07	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 02:07	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 02:07	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	21		2.0	0.84	mg/L		05/18/17 13:40	05/19/17 18:29	200
Calcium	840		10	5.0	mg/L		05/18/17 13:40	05/19/17 18:29	200

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 18:20	5
Arsenic	0.00060	I	0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 18:20	5
Barium	0.12		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 18:20	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 18:20	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 18:20	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 18:20	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 18:20	5
Lithium	0.28		0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 18:20	5
Molybdenum	0.0012	I	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 18:20	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	9600		50	34	mg/L			05/16/17 15:49	1
Chloride	3600		200	60	mg/L			05/17/17 09:25	100
Fluoride	0.060	I	0.10	0.032	mg/L			05/25/17 12:38	1
Sulfate	750		500	140	mg/L			05/17/17 09:19	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.21				SU			05/12/17 15:21	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-14
Date Collected: 05/12/17 13:27
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-11
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 02:12	5
Arsenic	0.0041		0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 02:12	5
Barium	0.059		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 02:12	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 02:12	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 02:12	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 02:12	5
Molybdenum	0.015		0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 02:12	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 02:12	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 02:12	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300		1.3	0.63	mg/L		05/18/17 13:40	05/19/17 18:38	25

Method: 6020 - Metals (ICP/MS) - Total Recoverable - DL2

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13		1.0	0.42	mg/L		05/18/17 13:40	05/19/17 18:43	100

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 18:34	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 18:34	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 18:34	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5600		25	17	mg/L			05/16/17 15:49	1
Chloride	2600		200	60	mg/L			05/17/17 09:25	100
Fluoride	0.050	I	0.10	0.032	mg/L			05/25/17 12:45	1
Sulfate	560		500	140	mg/L			05/17/17 09:19	100

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.66				SU			05/12/17 13:27	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: DUP-01

Date Collected: 05/11/17 08:56

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-12

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 02:16	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 02:16	5
Barium	0.014		0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 02:16	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 02:16	5
Calcium	31		0.25	0.13	mg/L		05/18/17 13:40	05/19/17 02:16	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 02:16	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 02:16	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 02:16	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 02:16	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 02:16	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 16:10	5
Boron	0.052		0.050	0.021	mg/L		05/18/17 13:40	05/19/17 16:10	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 16:10	5
Lithium	0.0092		0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 16:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	460		5.0	3.4	mg/L			05/15/17 13:29	1
Chloride	200		20	6.0	mg/L			05/17/17 09:40	10
Fluoride	0.10		0.10	0.032	mg/L			05/25/17 12:49	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/17/17 09:00	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: EB-01
Date Collected: 05/12/17 12:25
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-13
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 02:21	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 02:21	5
Barium	0.00049	U	0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 02:21	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 02:21	5
Calcium	0.13	U	0.25	0.13	mg/L		05/18/17 13:40	05/19/17 02:21	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 02:21	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 02:21	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 02:21	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 02:21	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 02:21	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 16:14	5
Boron	0.021	U	0.050	0.021	mg/L		05/18/17 13:40	05/19/17 16:14	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 16:14	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 16:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/16/17 15:49	1
Chloride	0.60	U	2.0	0.60	mg/L			05/17/17 10:30	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 12:52	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/17/17 10:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: FB-01
Date Collected: 05/12/17 11:15
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-14
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:40	05/19/17 02:25	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/18/17 13:40	05/19/17 02:25	5
Barium	0.00049	U	0.0025	0.00049	mg/L		05/18/17 13:40	05/19/17 02:25	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 02:25	5
Calcium	0.13	U	0.25	0.13	mg/L		05/18/17 13:40	05/19/17 02:25	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:40	05/19/17 02:25	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:40	05/19/17 02:25	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:40	05/19/17 02:25	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:40	05/19/17 02:25	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:40	05/19/17 02:25	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:40	05/19/17 16:19	5
Boron	0.021	U	0.050	0.021	mg/L		05/18/17 13:40	05/19/17 16:19	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:40	05/19/17 16:19	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/18/17 13:40	05/19/17 16:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/16/17 15:49	1
Chloride	0.60	U	2.0	0.60	mg/L			05/17/17 10:30	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 12:55	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/17/17 10:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: DUP-02
Date Collected: 05/12/17 06:42
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-15
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/22/17 16:02	05/23/17 13:42	5
Arsenic	0.0017		0.0013	0.00046	mg/L		05/22/17 16:02	05/23/17 13:42	5
Barium	0.060		0.0025	0.00049	mg/L		05/22/17 16:02	05/23/17 13:42	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/22/17 16:02	05/23/17 13:42	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/22/17 16:02	05/23/17 13:42	5
Chromium	0.0012	I	0.0025	0.0011	mg/L		05/22/17 16:02	05/23/17 13:42	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/22/17 16:02	05/23/17 13:42	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/22/17 16:02	05/23/17 13:42	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/22/17 16:02	05/23/17 13:42	5
Molybdenum	0.0050	I	0.015	0.00085	mg/L		05/22/17 16:02	05/23/17 13:42	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/22/17 16:02	05/23/17 13:42	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/22/17 16:02	05/23/17 13:42	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.7		0.25	0.11	mg/L		05/22/17 16:02	05/24/17 13:10	25
Calcium	210		1.3	0.63	mg/L		05/22/17 16:02	05/24/17 13:10	25

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3300		25	17	mg/L			05/16/17 15:49	1
Chloride	1500		200	60	mg/L			05/17/17 10:30	100
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 12:57	1
Sulfate	600		500	140	mg/L			05/17/17 10:23	100

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: EB-02
Date Collected: 05/12/17 15:30
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-16
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/22/17 16:02	05/23/17 13:15	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/22/17 16:02	05/23/17 13:15	5
Barium	0.00049	U	0.0025	0.00049	mg/L		05/22/17 16:02	05/23/17 13:15	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/22/17 16:02	05/23/17 13:15	5
Boron	0.021	U	0.050	0.021	mg/L		05/22/17 16:02	05/23/17 13:15	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/22/17 16:02	05/23/17 13:15	5
Calcium	0.13	U	0.25	0.13	mg/L		05/22/17 16:02	05/23/17 13:15	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/22/17 16:02	05/23/17 13:15	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/22/17 16:02	05/23/17 13:15	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/22/17 16:02	05/23/17 13:15	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/22/17 16:02	05/23/17 13:15	5
Molybdenum	0.0026	I	0.015	0.00085	mg/L		05/22/17 16:02	05/23/17 13:15	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/22/17 16:02	05/23/17 13:15	5

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/22/17 16:02	05/25/17 12:54	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/16/17 15:49	1
Chloride	0.60	U	2.0	0.60	mg/L			05/17/17 10:30	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 13:00	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/17/17 10:20	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: FB-02
Date Collected: 05/12/17 14:00
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-17
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/22/17 16:02	05/23/17 13:37	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/22/17 16:02	05/23/17 13:37	5
Barium	0.00049	U	0.0025	0.00049	mg/L		05/22/17 16:02	05/23/17 13:37	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/22/17 16:02	05/23/17 13:37	5
Boron	0.021	U	0.050	0.021	mg/L		05/22/17 16:02	05/23/17 13:37	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/22/17 16:02	05/23/17 13:37	5
Calcium	0.13	U	0.25	0.13	mg/L		05/22/17 16:02	05/23/17 13:37	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/22/17 16:02	05/23/17 13:37	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/22/17 16:02	05/23/17 13:37	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/22/17 16:02	05/23/17 13:37	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/22/17 16:02	05/23/17 13:37	5
Molybdenum	0.0011	I	0.015	0.00085	mg/L		05/22/17 16:02	05/23/17 13:37	5
Selenium	0.00025	I	0.0013	0.00024	mg/L		05/22/17 16:02	05/23/17 13:37	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/22/17 16:02	05/23/17 13:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 13:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/17/17 16:56	1
Chloride	0.60	U	2.0	0.60	mg/L			05/17/17 10:30	1
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 13:03	1
Sulfate	1.4	U	5.0	1.4	mg/L			05/17/17 10:20	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-2

Date Collected: 05/11/17 11:17

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 01:04	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 15:38	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:02	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353530	05/15/17 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	353832	05/17/17 09:05	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354108	05/18/17 18:18	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	353841	05/17/17 09:00	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/11/17 11:17	BWS	TAL PEN

Client Sample ID: MW-3

Date Collected: 05/11/17 14:18

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 01:09	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 15:42	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:04	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353530	05/15/17 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	353832	05/17/17 09:05	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354108	05/18/17 18:20	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	353841	05/17/17 09:00	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/11/17 14:18	BWS	TAL PEN

Client Sample ID: MW-6

Date Collected: 05/11/17 15:34

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 01:13	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 16:23	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL	25	354388	05/19/17 16:27	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL2		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	354388	05/19/17 16:32	DRE	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-6

Lab Sample ID: 400-137886-3

Date Collected: 05/11/17 15:34

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:06	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353530	05/15/17 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	353832	05/17/17 09:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 11:59	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	353841	05/17/17 09:14	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/11/17 15:34	BWS	TAL PEN

Client Sample ID: MW-7

Lab Sample ID: 400-137886-4

Date Collected: 05/12/17 07:42

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 01:18	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 16:36	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL	25	354388	05/19/17 16:41	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:07	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353530	05/15/17 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	353832	05/17/17 09:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:08	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	353841	05/17/17 09:14	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/12/17 07:42	BWS	TAL PEN

Client Sample ID: MW-8

Lab Sample ID: 400-137886-5

Date Collected: 05/12/17 14:27

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 01:22	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 16:45	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL	50	354388	05/19/17 16:50	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL2		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	354388	05/19/17 17:17	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:09	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-8

Lab Sample ID: 400-137886-5

Date Collected: 05/12/17 14:27

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	353530	05/15/17 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	353832	05/17/17 09:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:26	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	353841	05/17/17 09:14	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/12/17 14:27	BWS	TAL PEN

Client Sample ID: MW-9

Lab Sample ID: 400-137886-6

Date Collected: 05/12/17 12:07

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 01:49	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 17:22	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL	25	354388	05/19/17 17:26	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL2		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	354388	05/19/17 17:30	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:11	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353530	05/15/17 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	353832	05/17/17 09:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:28	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	353841	05/17/17 09:14	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/12/17 12:07	BWS	TAL PEN

Client Sample ID: MW-10

Lab Sample ID: 400-137886-7

Date Collected: 05/12/17 11:00

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 01:54	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 17:35	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL	50	354388	05/19/17 17:39	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL2		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	354388	05/19/17 17:44	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:21	JAP	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-10

Lab Sample ID: 400-137886-7

Date Collected: 05/12/17 11:00

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	353708	05/16/17 15:49	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	353832	05/17/17 09:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:32	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	353841	05/17/17 09:19	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/12/17 11:00	BWS	TAL PEN

Client Sample ID: MW-11

Lab Sample ID: 400-137886-8

Date Collected: 05/12/17 09:09

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 01:58	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 17:48	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL	25	354388	05/19/17 17:53	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:22	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353708	05/16/17 15:49	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	353832	05/17/17 09:08	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:34	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	353841	05/17/17 09:19	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/12/17 09:09	BWS	TAL PEN

Client Sample ID: MW-12

Lab Sample ID: 400-137886-9

Date Collected: 05/11/17 09:56

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 02:03	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 15:33	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:24	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353530	05/15/17 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		10	353832	05/17/17 09:40	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:36	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	353841	05/17/17 09:00	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/11/17 09:56	BWS	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: MW-13

Lab Sample ID: 400-137886-10

Date Collected: 05/12/17 15:21

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 02:07	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 18:20	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL	200	354388	05/19/17 18:29	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:26	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353708	05/16/17 15:49	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	353832	05/17/17 09:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:38	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	353841	05/17/17 09:19	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/12/17 15:21	BWS	TAL PEN

Client Sample ID: MW-14

Lab Sample ID: 400-137886-11

Date Collected: 05/12/17 13:27

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 02:12	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 18:34	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL	25	354388	05/19/17 18:38	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL2		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL2	100	354388	05/19/17 18:43	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:27	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353708	05/16/17 15:49	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	353832	05/17/17 09:25	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:45	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	353841	05/17/17 09:19	BJB	TAL PEN
Total/NA	Analysis	Field Sampling		1	356264	05/12/17 13:27	BWS	TAL PEN

Client Sample ID: DUP-01

Lab Sample ID: 400-137886-12

Date Collected: 05/11/17 08:56

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 02:16	DRE	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: DUP-01

Lab Sample ID: 400-137886-12

Date Collected: 05/11/17 08:56

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 16:10	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:29	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353530	05/15/17 13:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		10	353832	05/17/17 09:40	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:49	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	353841	05/17/17 09:00	BJB	TAL PEN

Client Sample ID: EB-01

Lab Sample ID: 400-137886-13

Date Collected: 05/12/17 12:25

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 02:21	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 16:14	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:31	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353708	05/16/17 15:49	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	353832	05/17/17 10:30	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:52	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	353841	05/17/17 10:20	BJB	TAL PEN

Client Sample ID: FB-01

Lab Sample ID: 400-137886-14

Date Collected: 05/12/17 11:15

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354173	05/19/17 02:25	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354035	05/18/17 13:40	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	354388	05/19/17 16:19	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:33	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353708	05/16/17 15:49	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	353832	05/17/17 10:30	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:55	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	353841	05/17/17 10:20	BJB	TAL PEN

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Client Sample ID: DUP-02

Lab Sample ID: 400-137886-15

Date Collected: 05/12/17 06:42

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354493	05/22/17 16:02	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354767	05/23/17 13:42	DRE	TAL PEN
Total Recoverable	Prep	3005A	DL		354493	05/22/17 16:02	JAP	TAL PEN
Total Recoverable	Analysis	6020	DL	25	354912	05/24/17 13:10	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:34	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353708	05/16/17 15:49	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		100	353832	05/17/17 10:30	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 12:57	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		100	353841	05/17/17 10:23	BJB	TAL PEN

Client Sample ID: EB-02

Lab Sample ID: 400-137886-16

Date Collected: 05/12/17 15:30

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354493	05/22/17 16:02	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354767	05/23/17 13:15	DRE	TAL PEN
Total Recoverable	Prep	3005A	RA		354493	05/22/17 16:02	JAP	TAL PEN
Total Recoverable	Analysis	6020	RA	5	355083	05/25/17 12:54	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:36	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353708	05/16/17 15:49	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	353832	05/17/17 10:30	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 13:00	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	353841	05/17/17 10:20	BJB	TAL PEN

Client Sample ID: FB-02

Lab Sample ID: 400-137886-17

Date Collected: 05/12/17 14:00

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			354493	05/22/17 16:02	JAP	TAL PEN
Total Recoverable	Analysis	6020		5	354767	05/23/17 13:37	DRE	TAL PEN
Total/NA	Prep	7470A			354141	05/20/17 13:50	DN1	TAL PEN
Total/NA	Analysis	7470A		1	354465	05/22/17 13:50	JAP	TAL PEN
Total/NA	Analysis	SM 2540C		1	353873	05/17/17 16:56	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	353832	05/17/17 10:30	BJB	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	354944	05/25/17 13:03	SLT	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	353841	05/17/17 10:20	BJB	TAL PEN

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Laboratory References:

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

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QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Metals

Prep Batch: 354035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1 - RA	MW-2	Total Recoverable	Water	3005A	
400-137886-1	MW-2	Total Recoverable	Water	3005A	
400-137886-2	MW-3	Total Recoverable	Water	3005A	
400-137886-2 - RA	MW-3	Total Recoverable	Water	3005A	
400-137886-3 - DL	MW-6	Total Recoverable	Water	3005A	
400-137886-3	MW-6	Total Recoverable	Water	3005A	
400-137886-3 - RA	MW-6	Total Recoverable	Water	3005A	
400-137886-3 - DL2	MW-6	Total Recoverable	Water	3005A	
400-137886-4	MW-7	Total Recoverable	Water	3005A	
400-137886-4 - RA	MW-7	Total Recoverable	Water	3005A	
400-137886-4 - DL	MW-7	Total Recoverable	Water	3005A	
400-137886-5 - RA	MW-8	Total Recoverable	Water	3005A	
400-137886-5 - DL	MW-8	Total Recoverable	Water	3005A	
400-137886-5	MW-8	Total Recoverable	Water	3005A	
400-137886-5 - DL2	MW-8	Total Recoverable	Water	3005A	
400-137886-6	MW-9	Total Recoverable	Water	3005A	
400-137886-6 - RA	MW-9	Total Recoverable	Water	3005A	
400-137886-6 - DL2	MW-9	Total Recoverable	Water	3005A	
400-137886-6 - DL	MW-9	Total Recoverable	Water	3005A	
400-137886-7 - DL	MW-10	Total Recoverable	Water	3005A	
400-137886-7 - DL2	MW-10	Total Recoverable	Water	3005A	
400-137886-7	MW-10	Total Recoverable	Water	3005A	
400-137886-7 - RA	MW-10	Total Recoverable	Water	3005A	
400-137886-8	MW-11	Total Recoverable	Water	3005A	
400-137886-8 - RA	MW-11	Total Recoverable	Water	3005A	
400-137886-8 - DL	MW-11	Total Recoverable	Water	3005A	
400-137886-9 - RA	MW-12	Total Recoverable	Water	3005A	
400-137886-9	MW-12	Total Recoverable	Water	3005A	
400-137886-10	MW-13	Total Recoverable	Water	3005A	
400-137886-10 - RA	MW-13	Total Recoverable	Water	3005A	
400-137886-10 - DL	MW-13	Total Recoverable	Water	3005A	
400-137886-11 - DL2	MW-14	Total Recoverable	Water	3005A	
400-137886-11 - DL	MW-14	Total Recoverable	Water	3005A	
400-137886-11	MW-14	Total Recoverable	Water	3005A	
400-137886-11 - RA	MW-14	Total Recoverable	Water	3005A	
400-137886-12	DUP-01	Total Recoverable	Water	3005A	
400-137886-12 - RA	DUP-01	Total Recoverable	Water	3005A	
400-137886-13	EB-01	Total Recoverable	Water	3005A	
400-137886-13 - RA	EB-01	Total Recoverable	Water	3005A	
400-137886-14 - RA	FB-01	Total Recoverable	Water	3005A	
400-137886-14	FB-01	Total Recoverable	Water	3005A	
MB 400-354035/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-354035/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-137702-C-14-C MS ^5	Matrix Spike	Total Recoverable	Water	3005A	
400-137702-C-14-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 354141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total/NA	Water	7470A	
400-137886-2	MW-3	Total/NA	Water	7470A	
400-137886-3	MW-6	Total/NA	Water	7470A	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Metals (Continued)

Prep Batch: 354141 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-4	MW-7	Total/NA	Water	7470A	
400-137886-5	MW-8	Total/NA	Water	7470A	
400-137886-6	MW-9	Total/NA	Water	7470A	
400-137886-7	MW-10	Total/NA	Water	7470A	
400-137886-8	MW-11	Total/NA	Water	7470A	
400-137886-9	MW-12	Total/NA	Water	7470A	
400-137886-10	MW-13	Total/NA	Water	7470A	
400-137886-11	MW-14	Total/NA	Water	7470A	
400-137886-12	DUP-01	Total/NA	Water	7470A	
400-137886-13	EB-01	Total/NA	Water	7470A	
400-137886-14	FB-01	Total/NA	Water	7470A	
400-137886-15	DUP-02	Total/NA	Water	7470A	
400-137886-16	EB-02	Total/NA	Water	7470A	
400-137886-17	FB-02	Total/NA	Water	7470A	
MB 400-354141/14-A	Method Blank	Total/NA	Water	7470A	
LCS 400-354141/15-A	Lab Control Sample	Total/NA	Water	7470A	
400-138109-A-2-C MS	Matrix Spike	Total/NA	Water	7470A	
400-138109-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 354173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total Recoverable	Water	6020	354035
400-137886-2	MW-3	Total Recoverable	Water	6020	354035
400-137886-3	MW-6	Total Recoverable	Water	6020	354035
400-137886-4	MW-7	Total Recoverable	Water	6020	354035
400-137886-5	MW-8	Total Recoverable	Water	6020	354035
400-137886-6	MW-9	Total Recoverable	Water	6020	354035
400-137886-7	MW-10	Total Recoverable	Water	6020	354035
400-137886-8	MW-11	Total Recoverable	Water	6020	354035
400-137886-9	MW-12	Total Recoverable	Water	6020	354035
400-137886-10	MW-13	Total Recoverable	Water	6020	354035
400-137886-11	MW-14	Total Recoverable	Water	6020	354035
400-137886-12	DUP-01	Total Recoverable	Water	6020	354035
400-137886-13	EB-01	Total Recoverable	Water	6020	354035
400-137886-14	FB-01	Total Recoverable	Water	6020	354035
MB 400-354035/1-A ^5	Method Blank	Total Recoverable	Water	6020	354035
LCS 400-354035/2-A	Lab Control Sample	Total Recoverable	Water	6020	354035
400-137702-C-14-C MS ^5	Matrix Spike	Total Recoverable	Water	6020	354035
400-137702-C-14-D MSD ^5	Matrix Spike Duplicate	Total Recoverable	Water	6020	354035

Analysis Batch: 354388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1 - RA	MW-2	Total Recoverable	Water	6020	354035
400-137886-2 - RA	MW-3	Total Recoverable	Water	6020	354035
400-137886-3 - RA	MW-6	Total Recoverable	Water	6020	354035
400-137886-3 - DL	MW-6	Total Recoverable	Water	6020	354035
400-137886-3 - DL2	MW-6	Total Recoverable	Water	6020	354035
400-137886-4 - RA	MW-7	Total Recoverable	Water	6020	354035
400-137886-4 - DL	MW-7	Total Recoverable	Water	6020	354035
400-137886-5 - RA	MW-8	Total Recoverable	Water	6020	354035
400-137886-5 - DL	MW-8	Total Recoverable	Water	6020	354035

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Metals (Continued)

Analysis Batch: 354388 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-5 - DL2	MW-8	Total Recoverable	Water	6020	354035
400-137886-6 - RA	MW-9	Total Recoverable	Water	6020	354035
400-137886-6 - DL	MW-9	Total Recoverable	Water	6020	354035
400-137886-6 - DL2	MW-9	Total Recoverable	Water	6020	354035
400-137886-7 - RA	MW-10	Total Recoverable	Water	6020	354035
400-137886-7 - DL	MW-10	Total Recoverable	Water	6020	354035
400-137886-7 - DL2	MW-10	Total Recoverable	Water	6020	354035
400-137886-8 - RA	MW-11	Total Recoverable	Water	6020	354035
400-137886-8 - DL	MW-11	Total Recoverable	Water	6020	354035
400-137886-9 - RA	MW-12	Total Recoverable	Water	6020	354035
400-137886-10 - RA	MW-13	Total Recoverable	Water	6020	354035
400-137886-10 - DL	MW-13	Total Recoverable	Water	6020	354035
400-137886-11 - RA	MW-14	Total Recoverable	Water	6020	354035
400-137886-11 - DL	MW-14	Total Recoverable	Water	6020	354035
400-137886-11 - DL2	MW-14	Total Recoverable	Water	6020	354035
400-137886-12 - RA	DUP-01	Total Recoverable	Water	6020	354035
400-137886-13 - RA	EB-01	Total Recoverable	Water	6020	354035
400-137886-14 - RA	FB-01	Total Recoverable	Water	6020	354035
MB 400-354035/1-A ^5	Method Blank	Total Recoverable	Water	6020	354035
LCS 400-354035/2-A	Lab Control Sample	Total Recoverable	Water	6020	354035

Analysis Batch: 354465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total/NA	Water	7470A	354141
400-137886-2	MW-3	Total/NA	Water	7470A	354141
400-137886-3	MW-6	Total/NA	Water	7470A	354141
400-137886-4	MW-7	Total/NA	Water	7470A	354141
400-137886-5	MW-8	Total/NA	Water	7470A	354141
400-137886-6	MW-9	Total/NA	Water	7470A	354141
400-137886-7	MW-10	Total/NA	Water	7470A	354141
400-137886-8	MW-11	Total/NA	Water	7470A	354141
400-137886-9	MW-12	Total/NA	Water	7470A	354141
400-137886-10	MW-13	Total/NA	Water	7470A	354141
400-137886-11	MW-14	Total/NA	Water	7470A	354141
400-137886-12	DUP-01	Total/NA	Water	7470A	354141
400-137886-13	EB-01	Total/NA	Water	7470A	354141
400-137886-14	FB-01	Total/NA	Water	7470A	354141
400-137886-15	DUP-02	Total/NA	Water	7470A	354141
400-137886-16	EB-02	Total/NA	Water	7470A	354141
400-137886-17	FB-02	Total/NA	Water	7470A	354141
MB 400-354141/14-A	Method Blank	Total/NA	Water	7470A	354141
LCS 400-354141/15-A	Lab Control Sample	Total/NA	Water	7470A	354141
400-138109-A-2-C MS	Matrix Spike	Total/NA	Water	7470A	354141
400-138109-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	354141

Prep Batch: 354493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-15	DUP-02	Total Recoverable	Water	3005A	
400-137886-15 - DL	DUP-02	Total Recoverable	Water	3005A	
400-137886-16 - RA	EB-02	Total Recoverable	Water	3005A	
400-137886-16	EB-02	Total Recoverable	Water	3005A	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Metals (Continued)

Prep Batch: 354493 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-17	FB-02	Total Recoverable	Water	3005A	
MB 400-354493/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-354493/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-137886-16 MS	EB-02	Total Recoverable	Water	3005A	
400-137886-16 MSD	EB-02	Total Recoverable	Water	3005A	

Analysis Batch: 354767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-15	DUP-02	Total Recoverable	Water	6020	354493
400-137886-16	EB-02	Total Recoverable	Water	6020	354493
400-137886-17	FB-02	Total Recoverable	Water	6020	354493
MB 400-354493/1-A ^5	Method Blank	Total Recoverable	Water	6020	354493
LCS 400-354493/2-A	Lab Control Sample	Total Recoverable	Water	6020	354493
400-137886-16 MS	EB-02	Total Recoverable	Water	6020	354493
400-137886-16 MSD	EB-02	Total Recoverable	Water	6020	354493

Analysis Batch: 354912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-15 - DL	DUP-02	Total Recoverable	Water	6020	354493

Analysis Batch: 355083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-16 - RA	EB-02	Total Recoverable	Water	6020	354493

General Chemistry

Analysis Batch: 353530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total/NA	Water	SM 2540C	
400-137886-2	MW-3	Total/NA	Water	SM 2540C	
400-137886-3	MW-6	Total/NA	Water	SM 2540C	
400-137886-4	MW-7	Total/NA	Water	SM 2540C	
400-137886-5	MW-8	Total/NA	Water	SM 2540C	
400-137886-6	MW-9	Total/NA	Water	SM 2540C	
400-137886-9	MW-12	Total/NA	Water	SM 2540C	
400-137886-12	DUP-01	Total/NA	Water	SM 2540C	
MB 400-353530/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-353530/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-137886-1 DU	MW-2	Total/NA	Water	SM 2540C	

Analysis Batch: 353708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-7	MW-10	Total/NA	Water	SM 2540C	
400-137886-8	MW-11	Total/NA	Water	SM 2540C	
400-137886-10	MW-13	Total/NA	Water	SM 2540C	
400-137886-11	MW-14	Total/NA	Water	SM 2540C	
400-137886-13	EB-01	Total/NA	Water	SM 2540C	
400-137886-14	FB-01	Total/NA	Water	SM 2540C	
400-137886-15	DUP-02	Total/NA	Water	SM 2540C	
400-137886-16	EB-02	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

General Chemistry (Continued)

Analysis Batch: 353708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-353708/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-353708/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-137902-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	
400-137904-B-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 353832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total/NA	Water	SM 4500 Cl- E	
400-137886-2	MW-3	Total/NA	Water	SM 4500 Cl- E	
400-137886-3	MW-6	Total/NA	Water	SM 4500 Cl- E	
400-137886-4	MW-7	Total/NA	Water	SM 4500 Cl- E	
400-137886-5	MW-8	Total/NA	Water	SM 4500 Cl- E	
400-137886-6	MW-9	Total/NA	Water	SM 4500 Cl- E	
400-137886-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-137886-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
400-137886-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
400-137886-10	MW-13	Total/NA	Water	SM 4500 Cl- E	
400-137886-11	MW-14	Total/NA	Water	SM 4500 Cl- E	
400-137886-12	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-137886-13	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-137886-14	FB-01	Total/NA	Water	SM 4500 Cl- E	
400-137886-15	DUP-02	Total/NA	Water	SM 4500 Cl- E	
400-137886-16	EB-02	Total/NA	Water	SM 4500 Cl- E	
400-137886-17	FB-02	Total/NA	Water	SM 4500 Cl- E	
MB 400-353832/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-353832/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-353832/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-137886-2 MS	MW-3	Total/NA	Water	SM 4500 Cl- E	
400-137886-2 MSD	MW-3	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 353841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total/NA	Water	SM 4500 SO4 E	
400-137886-2	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-137886-3	MW-6	Total/NA	Water	SM 4500 SO4 E	
400-137886-4	MW-7	Total/NA	Water	SM 4500 SO4 E	
400-137886-5	MW-8	Total/NA	Water	SM 4500 SO4 E	
400-137886-6	MW-9	Total/NA	Water	SM 4500 SO4 E	
400-137886-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-137886-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
400-137886-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
400-137886-10	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-137886-11	MW-14	Total/NA	Water	SM 4500 SO4 E	
400-137886-12	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-137886-13	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-137886-14	FB-01	Total/NA	Water	SM 4500 SO4 E	
400-137886-15	DUP-02	Total/NA	Water	SM 4500 SO4 E	
400-137886-16	EB-02	Total/NA	Water	SM 4500 SO4 E	
400-137886-17	FB-02	Total/NA	Water	SM 4500 SO4 E	
MB 400-353841/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-353841/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

General Chemistry (Continued)

Analysis Batch: 353841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 400-353841/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-137886-2 MS	MW-3	Total/NA	Water	SM 4500 SO4 E	
400-137886-2 MSD	MW-3	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 353873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-17	FB-02	Total/NA	Water	SM 2540C	
MB 400-353873/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-353873/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-137911-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 354108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total/NA	Water	SM 4500 F C	
400-137886-2	MW-3	Total/NA	Water	SM 4500 F C	
MB 400-354108/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-354108/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-137692-A-1 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-137692-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-137771-D-2 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 354944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-3	MW-6	Total/NA	Water	SM 4500 F C	
400-137886-4	MW-7	Total/NA	Water	SM 4500 F C	
400-137886-5	MW-8	Total/NA	Water	SM 4500 F C	
400-137886-6	MW-9	Total/NA	Water	SM 4500 F C	
400-137886-7	MW-10	Total/NA	Water	SM 4500 F C	
400-137886-8	MW-11	Total/NA	Water	SM 4500 F C	
400-137886-9	MW-12	Total/NA	Water	SM 4500 F C	
400-137886-10	MW-13	Total/NA	Water	SM 4500 F C	
400-137886-11	MW-14	Total/NA	Water	SM 4500 F C	
400-137886-12	DUP-01	Total/NA	Water	SM 4500 F C	
400-137886-13	EB-01	Total/NA	Water	SM 4500 F C	
400-137886-14	FB-01	Total/NA	Water	SM 4500 F C	
400-137886-15	DUP-02	Total/NA	Water	SM 4500 F C	
400-137886-16	EB-02	Total/NA	Water	SM 4500 F C	
400-137886-17	FB-02	Total/NA	Water	SM 4500 F C	
MB 400-354944/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-354944/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-137886-3 MS	MW-6	Total/NA	Water	SM 4500 F C	
400-137886-3 MSD	MW-6	Total/NA	Water	SM 4500 F C	
400-137886-11 DU	MW-14	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 356264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total/NA	Water	Field Sampling	
400-137886-2	MW-3	Total/NA	Water	Field Sampling	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Field Service / Mobile Lab (Continued)

Analysis Batch: 356264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-3	MW-6	Total/NA	Water	Field Sampling	
400-137886-4	MW-7	Total/NA	Water	Field Sampling	
400-137886-5	MW-8	Total/NA	Water	Field Sampling	
400-137886-6	MW-9	Total/NA	Water	Field Sampling	
400-137886-7	MW-10	Total/NA	Water	Field Sampling	
400-137886-8	MW-11	Total/NA	Water	Field Sampling	
400-137886-9	MW-12	Total/NA	Water	Field Sampling	
400-137886-10	MW-13	Total/NA	Water	Field Sampling	
400-137886-11	MW-14	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-354035/1-A ^5
Matrix: Water
Analysis Batch: 354173

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354035

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:27	05/18/17 22:58	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/18/17 13:27	05/18/17 22:58	5
Barium	0.00049	U	0.0025	0.00049	mg/L		05/18/17 13:27	05/18/17 22:58	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:27	05/18/17 22:58	5
Boron	0.021	U	0.050	0.021	mg/L		05/18/17 13:27	05/18/17 22:58	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:27	05/18/17 22:58	5
Calcium	0.143	I	0.25	0.13	mg/L		05/18/17 13:27	05/18/17 22:58	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/18/17 13:27	05/18/17 22:58	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/18/17 13:27	05/18/17 22:58	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:27	05/18/17 22:58	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/18/17 13:27	05/18/17 22:58	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/18/17 13:27	05/18/17 22:58	5

Lab Sample ID: MB 400-354035/1-A ^5
Matrix: Water
Analysis Batch: 354388

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354035

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/18/17 13:27	05/19/17 14:26	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/18/17 13:27	05/19/17 14:26	5
Barium	0.00049	U	0.0025	0.00049	mg/L		05/18/17 13:27	05/19/17 14:26	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:27	05/19/17 14:26	5
Boron	0.021	U	0.050	0.021	mg/L		05/18/17 13:27	05/19/17 14:26	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/18/17 13:27	05/19/17 14:26	5
Calcium	0.13	U	0.25	0.13	mg/L		05/18/17 13:27	05/19/17 14:26	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/18/17 13:27	05/19/17 14:26	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/18/17 13:27	05/19/17 14:26	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/18/17 13:27	05/19/17 14:26	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/18/17 13:27	05/19/17 14:26	5

Lab Sample ID: LCS 400-354035/2-A
Matrix: Water
Analysis Batch: 354173

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.0500	0.0545		mg/L		109	80 - 120
Arsenic	0.0500	0.0512		mg/L		102	80 - 120
Barium	0.0500	0.0523		mg/L		105	80 - 120
Beryllium	0.0500	0.0455		mg/L		91	80 - 120
Boron	0.100	0.0909		mg/L		91	80 - 120
Cadmium	0.0500	0.0502		mg/L		100	80 - 120
Calcium	5.00	4.86		mg/L		97	80 - 120
Lead	0.0500	0.0522		mg/L		104	80 - 120
Lithium	0.0500	0.0495		mg/L		99	80 - 120
Molybdenum	0.100	0.0986		mg/L		99	80 - 120
Selenium	0.0500	0.0525		mg/L		105	80 - 120
Thallium	0.0100	0.0102		mg/L		102	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

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

Lab Sample ID: LCS 400-354035/2-A
Matrix: Water
Analysis Batch: 354388

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0500	0.0555		mg/L		111	80 - 120
Arsenic	0.0500	0.0534		mg/L		107	80 - 120
Barium	0.0500	0.0524		mg/L		105	80 - 120
Beryllium	0.0500	0.0510		mg/L		102	80 - 120
Boron	0.100	0.101		mg/L		101	80 - 120
Cadmium	0.0500	0.0529		mg/L		106	80 - 120
Calcium	5.00	5.13		mg/L		103	80 - 120
Chromium	0.0500	0.0487		mg/L		97	80 - 120
Cobalt	0.0500	0.0496		mg/L		99	80 - 120
Lead	0.0500	0.0508		mg/L		102	80 - 120
Lithium	0.0500	0.0528		mg/L		106	80 - 120
Molybdenum	0.100	0.106		mg/L		106	80 - 120
Selenium	0.0500	0.0517		mg/L		103	80 - 120
Thallium	0.0100	0.0107		mg/L		107	80 - 120

Lab Sample ID: 400-137702-C-14-C MS ^5
Matrix: Water
Analysis Batch: 354173

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 354035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.0010	U	0.0500	0.0591		mg/L		118	75 - 125
Arsenic	0.00046	U	0.0500	0.0526		mg/L		105	75 - 125
Barium	0.00049	U	0.0500	0.0525		mg/L		105	75 - 125
Beryllium	0.00034	U	0.0500	0.0489		mg/L		98	75 - 125
Boron	0.021	U	0.100	0.0935		mg/L		94	75 - 125
Cadmium	0.00034	U	0.0500	0.0492		mg/L		98	75 - 125
Calcium	0.13	U	5.00	5.03		mg/L		101	75 - 125
Chromium	0.0011	U	0.0500	0.0467		mg/L		93	75 - 125
Cobalt	0.00040	U	0.0500	0.0464		mg/L		93	75 - 125
Lead	0.00035	U	0.0500	0.0529		mg/L		106	75 - 125
Lithium	0.0032	U	0.0500	0.0423		mg/L		85	75 - 125
Molybdenum	0.0030	I	0.100	0.106		mg/L		103	75 - 125
Selenium	0.0015		0.0500	0.0567		mg/L		110	75 - 125
Thallium	0.000085	U	0.0100	0.0102		mg/L		102	75 - 125

Lab Sample ID: 400-137702-C-14-D MSD ^5
Matrix: Water
Analysis Batch: 354173

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 354035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.0010	U	0.0500	0.0562		mg/L		112	75 - 125	5	20
Arsenic	0.00046	U	0.0500	0.0510		mg/L		102	75 - 125	3	20
Barium	0.00049	U	0.0500	0.0530		mg/L		106	75 - 125	1	20
Beryllium	0.00034	U	0.0500	0.0485		mg/L		97	75 - 125	1	20
Boron	0.021	U	0.100	0.0940		mg/L		94	75 - 125	0	20
Cadmium	0.00034	U	0.0500	0.0515		mg/L		103	75 - 125	4	20
Calcium	0.13	U	5.00	4.96		mg/L		99	75 - 125	1	20
Chromium	0.0011	U	0.0500	0.0459		mg/L		92	75 - 125	2	20

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

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

Lab Sample ID: 400-137702-C-14-D MSD ^5
Matrix: Water
Analysis Batch: 354173

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 354035

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Cobalt	0.00040	U	0.0500	0.0465		mg/L		93	75 - 125	0	20
Lead	0.00035	U	0.0500	0.0520		mg/L		104	75 - 125	2	20
Lithium	0.0032	U	0.0500	0.0427		mg/L		85	75 - 125	1	20
Molybdenum	0.0030	I	0.100	0.100		mg/L		97	75 - 125	5	20
Selenium	0.0015		0.0500	0.0525		mg/L		102	75 - 125	8	20
Thallium	0.000085	U	0.0100	0.0102		mg/L		102	75 - 125	0	20

Lab Sample ID: MB 400-354493/1-A ^5
Matrix: Water
Analysis Batch: 354767

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 354493

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.0010	U	0.0025	0.0010	mg/L		05/22/17 16:01	05/23/17 13:06	5
Arsenic	0.00046	U	0.0013	0.00046	mg/L		05/22/17 16:01	05/23/17 13:06	5
Barium	0.000555	I	0.0025	0.00049	mg/L		05/22/17 16:01	05/23/17 13:06	5
Beryllium	0.00034	U	0.0025	0.00034	mg/L		05/22/17 16:01	05/23/17 13:06	5
Boron	0.021	U	0.050	0.021	mg/L		05/22/17 16:01	05/23/17 13:06	5
Cadmium	0.00034	U	0.0025	0.00034	mg/L		05/22/17 16:01	05/23/17 13:06	5
Calcium	0.13	U	0.25	0.13	mg/L		05/22/17 16:01	05/23/17 13:06	5
Chromium	0.0011	U	0.0025	0.0011	mg/L		05/22/17 16:01	05/23/17 13:06	5
Cobalt	0.00040	U	0.0025	0.00040	mg/L		05/22/17 16:01	05/23/17 13:06	5
Lead	0.00035	U	0.0013	0.00035	mg/L		05/22/17 16:01	05/23/17 13:06	5
Lithium	0.0032	U	0.0050	0.0032	mg/L		05/22/17 16:01	05/23/17 13:06	5
Molybdenum	0.00085	U	0.015	0.00085	mg/L		05/22/17 16:01	05/23/17 13:06	5
Selenium	0.00024	U	0.0013	0.00024	mg/L		05/22/17 16:01	05/23/17 13:06	5
Thallium	0.000085	U	0.00050	0.000085	mg/L		05/22/17 16:01	05/23/17 13:06	5

Lab Sample ID: LCS 400-354493/2-A
Matrix: Water
Analysis Batch: 354767

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 354493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Antimony	0.0500	0.0551		mg/L		110	80 - 120
Arsenic	0.0500	0.0527		mg/L		105	80 - 120
Barium	0.0500	0.0479		mg/L		96	80 - 120
Beryllium	0.0500	0.0534		mg/L		107	80 - 120
Boron	0.100	0.0980		mg/L		98	80 - 120
Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Calcium	5.00	4.56		mg/L		91	80 - 120
Chromium	0.0500	0.0495		mg/L		99	80 - 120
Cobalt	0.0500	0.0525		mg/L		105	80 - 120
Lead	0.0500	0.0524		mg/L		105	80 - 120
Lithium	0.0500	0.0540		mg/L		108	80 - 120
Molybdenum	0.100	0.103		mg/L		103	80 - 120
Selenium	0.0500	0.0515		mg/L		103	80 - 120
Thallium	0.0100	0.0107		mg/L		107	80 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

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

Lab Sample ID: 400-137886-16 MS

Matrix: Water

Analysis Batch: 354767

Client Sample ID: EB-02
Prep Type: Total Recoverable
Prep Batch: 354493

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Antimony	0.0010	U	0.0500	0.0573		mg/L		115	75 - 125	
Arsenic	0.00046	U	0.0500	0.0541		mg/L		108	75 - 125	
Barium	0.00049	U	0.0500	0.0477		mg/L		95	75 - 125	
Beryllium	0.00034	U	0.0500	0.0537		mg/L		107	75 - 125	
Boron	0.021	U	0.100	0.103		mg/L		103	75 - 125	
Cadmium	0.00034	U	0.0500	0.0529		mg/L		106	75 - 125	
Calcium	0.13	U	5.00	4.72		mg/L		94	75 - 125	
Chromium	0.0011	U	0.0500	0.0513		mg/L		103	75 - 125	
Cobalt	0.00040	U	0.0500	0.0511		mg/L		102	75 - 125	
Lead	0.00035	U	0.0500	0.0517		mg/L		103	75 - 125	
Lithium	0.0032	U	0.0500	0.0465		mg/L		93	75 - 125	
Molybdenum	0.0026	I	0.100	0.107		mg/L		105	75 - 125	
Selenium	0.0015		0.0500	0.0541		mg/L		105	75 - 125	
Thallium	0.000085	U	0.0100	0.0106		mg/L		106	75 - 125	

Lab Sample ID: 400-137886-16 MSD

Matrix: Water

Analysis Batch: 354767

Client Sample ID: EB-02
Prep Type: Total Recoverable
Prep Batch: 354493

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Antimony	0.0010	U	0.0500	0.0562		mg/L		112	75 - 125	2	20	
Arsenic	0.00046	U	0.0500	0.0538		mg/L		108	75 - 125	1	20	
Barium	0.00049	U	0.0500	0.0474		mg/L		95	75 - 125	1	20	
Beryllium	0.00034	U	0.0500	0.0537		mg/L		107	75 - 125	0	20	
Boron	0.021	U	0.100	0.104		mg/L		104	75 - 125	1	20	
Cadmium	0.00034	U	0.0500	0.0529		mg/L		106	75 - 125	0	20	
Calcium	0.13	U	5.00	4.66		mg/L		93	75 - 125	1	20	
Chromium	0.0011	U	0.0500	0.0512		mg/L		102	75 - 125	0	20	
Cobalt	0.00040	U	0.0500	0.0507		mg/L		101	75 - 125	1	20	
Lead	0.00035	U	0.0500	0.0514		mg/L		103	75 - 125	1	20	
Lithium	0.0032	U	0.0500	0.0472		mg/L		94	75 - 125	2	20	
Molybdenum	0.0026	I	0.100	0.105		mg/L		103	75 - 125	2	20	
Selenium	0.0015		0.0500	0.0530		mg/L		103	75 - 125	2	20	
Thallium	0.000085	U	0.0100	0.0107		mg/L		107	75 - 125	1	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-354141/14-A

Matrix: Water

Analysis Batch: 354465

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 354141

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.000070	U	0.00020	0.000070	mg/L		05/20/17 13:50	05/22/17 12:39	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 400-354141/15-A
Matrix: Water
Analysis Batch: 354465

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 354141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00101	0.000961		mg/L		95	80 - 120

Lab Sample ID: 400-138109-A-2-C MS
Matrix: Water
Analysis Batch: 354465

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 354141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.000070	U	0.00201	0.00189		mg/L		94	80 - 120

Lab Sample ID: 400-138109-A-2-D MSD
Matrix: Water
Analysis Batch: 354465

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 354141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	0.000070	U	0.00201	0.00197		mg/L		98	80 - 120	4	20

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

Lab Sample ID: MB 400-353530/1
Matrix: Water
Analysis Batch: 353530

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/15/17 13:29	1

Lab Sample ID: LCS 400-353530/2
Matrix: Water
Analysis Batch: 353530

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	284		mg/L		97	78 - 122

Lab Sample ID: 400-137886-1 DU
Matrix: Water
Analysis Batch: 353530

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	190		186		mg/L		0	5

Lab Sample ID: MB 400-353708/1
Matrix: Water
Analysis Batch: 353708

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/16/17 15:49	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

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

Lab Sample ID: LCS 400-353708/2
Matrix: Water
Analysis Batch: 353708

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	276		mg/L		94	78 - 122

Lab Sample ID: 400-137902-B-1 DU
Matrix: Water
Analysis Batch: 353708

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	28		28.0		mg/L		0	5

Lab Sample ID: 400-137904-B-2 DU
Matrix: Water
Analysis Batch: 353708

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	36		36.0		mg/L		0	5

Lab Sample ID: MB 400-353873/1
Matrix: Water
Analysis Batch: 353873

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			05/17/17 16:56	1

Lab Sample ID: LCS 400-353873/2
Matrix: Water
Analysis Batch: 353873

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: 400-137911-A-2 DU
Matrix: Water
Analysis Batch: 353873

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	52		52.0		mg/L		0	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-353832/6
Matrix: Water
Analysis Batch: 353832

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			05/17/17 08:22	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

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

Lab Sample ID: LCS 400-353832/7
Matrix: Water
Analysis Batch: 353832

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	31.1		mg/L		104	90 - 110

Lab Sample ID: MRL 400-353832/3
Matrix: Water
Analysis Batch: 353832

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	2.24		mg/L		112	50 - 150

Lab Sample ID: 400-137886-2 MS
Matrix: Water
Analysis Batch: 353832

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12		10.0	20.9		mg/L		91	73 - 120

Lab Sample ID: 400-137886-2 MSD
Matrix: Water
Analysis Batch: 353832

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12		10.0	20.7		mg/L		90	73 - 120	1	8

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-354108/3
Matrix: Water
Analysis Batch: 354108

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			05/18/17 17:20	1

Lab Sample ID: LCS 400-354108/4
Matrix: Water
Analysis Batch: 354108

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	3.79		mg/L		95	90 - 110

Lab Sample ID: 400-137692-A-1 MS
Matrix: Water
Analysis Batch: 354108

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	U	1.00	0.880		mg/L		88	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 400-137692-A-1 MSD
Matrix: Water
Analysis Batch: 354108

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	U	1.00	0.900		mg/L		90	75 - 125	2	4

Lab Sample ID: 400-137771-D-2 DU
Matrix: Water
Analysis Batch: 354108

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	I	0.0600	I	mg/L		0	4

Lab Sample ID: MB 400-354944/3
Matrix: Water
Analysis Batch: 354944

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			05/25/17 11:50	1

Lab Sample ID: LCS 400-354944/4
Matrix: Water
Analysis Batch: 354944

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: 400-137886-3 MS
Matrix: Water
Analysis Batch: 354944

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
Fluoride	0.040	I	1.00	0.860		mg/L		82	75 - 125

Lab Sample ID: 400-137886-3 MSD
Matrix: Water
Analysis Batch: 354944

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
Fluoride	0.040	I	1.00	0.840		mg/L		80	75 - 125	2	4

Lab Sample ID: 400-137886-11 DU
Matrix: Water
Analysis Batch: 354944

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.050	I	0.0500	I	mg/L		0	4

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-353841/6
Matrix: Water
Analysis Batch: 353841

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			05/17/17 08:24	1

Lab Sample ID: LCS 400-353841/7
Matrix: Water
Analysis Batch: 353841

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	14.4		mg/L		96	90 - 110

Lab Sample ID: MRL 400-353841/3
Matrix: Water
Analysis Batch: 353841

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	4.28	I	mg/L		86	50 - 150

Lab Sample ID: 400-137886-2 MS
Matrix: Water
Analysis Batch: 353841

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.4	U	10.0	7.69		mg/L		77	77 - 128

Lab Sample ID: 400-137886-2 MSD
Matrix: Water
Analysis Batch: 353841

Client Sample ID: MW-3
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	U	10.0	7.71		mg/L		77	77 - 128	0	5

Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-53436-23565.1	
Client Contact: Kristi Mitchell		Phone: 850 380 3458		E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 2	
Company: Gulf Power Company		Due Date Requested:		Analysis Requested		Job #:	
Address: BIN 731 One Energy Place		TAT Requested (days):		4500_F_C - Fluoride		Total Number of Containers:	
City: Pensacola		Purchase Order not required		2540C - Total Dissolved Solids		Preservation Codes:	
State, Zip: FL, 32520		PO #:		6020, 7470A		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:	
Phone: 850-444-6427(Tel)		WO #:		Field Sampling - Field Sampling Parameters		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 X - other (specify)	
Email: krmitch@southernco.com		Project #:		SM4500 Cl, E, SM4500, SO4, E		Special Instructions/Note:	
Project Name: CCR Smith Plant Event Desc: CCR Smith Plant		40006609		9315_Ra226, 9320_Ra228			
Site: Florida		SSOW#:		Perform MS/MSD (Yes or No)			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil/sediment, A=air)	Field Filtered Sample (Yes or No)	Field Sampling Parameters
MW-02		5/11/17	1117	G	Water	X	X
MW-03		5/11/17	1418		Water	X	X
MW-06		5/11/17	1534		Water	X	X
MW-07		5/12/17	0742		Water	X	X
MW-08		5/12/17	1427		Water	X	X
MW-09		5/12/17	1207		Water	X	X
MW-10		5/12/17	1100		Water	X	X
MW-11		5/12/17	0909		Water	X	X
MW-12		5/11/17	0956		Water	X	X
MW-13		5/12/17	1523		Water	X	X
MW-14		5/12/17	1327	G	Water	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>BMC</i>		Date/Time: 5/13/17 0815		Company: PDF		Date/Time: 5/13/17 0815	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature: 4.0°C		Other Remarks: JAZZ	
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:							



Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-53436-23565.2	
Client Contact: Kristi Mitchell		E-Mail: cheyenne.whitmire@testamericainc.com		Phone: 850 380 3458		Page: Page 2 of 2	
Company: Gulf Power Company		Due Date Requested:		Analysis Requested		Job #:	
Address: BIN 731 One Energy Place		TAT Requested (days):		4500 F, C - Fluoride		Preservation Codes:	
City: Pensacola		PO #: Purchase Order not required		2540C - Total Dissolved Solids		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 850-444-6427(Tel)		WO #:		6020, 7470A		W - pH 4-5 Z - other (specify)	
Email: krmitch@southernco.com		Project #:		Field Sampling - Field Sampling Parameters		Special Instructions/Note:	
Project Name: CCR Smith Plant		40006609		9315 Ra226, 9320 Ra228			
Site: Florida		SSOW#:		Perform MS/MSD (Yes or No)			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Organic/Oil)	Field Filtered Sample (Yes or No)	Field MS/MSD (Yes or No)	Total Number of Containers
DUP-01	5/11/17	0856	G	Water	X	X	
EB-01	5/12/17	1225		Water			
FB-01	5/12/17	1115		Water			
DUP-02	5/12/17	0642		Water			
EB-02	5/12/17	1530		Water			
FB-02	5/12/17	1400	G	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 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/OC Requirements: Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date: 5/13/17 0815 Company: KOT Relinquished by: _____ Date: _____ Company: _____ Relinquished by: _____ Date: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No							



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-137886-1

SDG Number:

Login Number: 137886

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, 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-1

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	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	06-14-17
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: 400-137886-2

TestAmerica Sample Delivery Group: CCR Smith Plant

Client Project/Site: CCR Smith Plant

Sampling Event: CCR Smith Plant

For:

Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

6/12/2017 6:09:33 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Job ID: 400-137886-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-137886-2

RAD

Method(s) PrecSep_0: Radium 228 Prep Batch 160-309106. 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-2 (400-137886-1), MW-3 (400-137886-2), MW-6 (400-137886-3), MW-7 (400-137886-4), MW-8 (400-137886-5), MW-9 (400-137886-6), MW-10 (400-137886-7), MW-11 (400-137886-8), MW-12 (400-137886-9), MW-13 (400-137886-10), MW-14 (400-137886-11), DUP-01 (400-137886-12), EB-01 (400-137886-13), FB-01 (400-137886-14), DUP-02 (400-137886-15), EB-02 (400-137886-16) and FB-02 (400-137886-17)

Method(s) PrecSep-21: Radium 226 Prep Batch 160-309098. 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-2 (400-137886-1), MW-3 (400-137886-2), MW-6 (400-137886-3), MW-7 (400-137886-4), MW-8 (400-137886-5), MW-9 (400-137886-6), MW-10 (400-137886-7), MW-11 (400-137886-8), MW-12 (400-137886-9), MW-13 (400-137886-10), MW-14 (400-137886-11), DUP-01 (400-137886-12), EB-01 (400-137886-13), FB-01 (400-137886-14), DUP-02 (400-137886-15), EB-02 (400-137886-16) and FB-02 (400-137886-17)



Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-137886-1	MW-2	Water	05/11/17 11:17	05/13/17 08:15
400-137886-2	MW-3	Water	05/11/17 14:18	05/13/17 08:15
400-137886-3	MW-6	Water	05/11/17 15:34	05/13/17 08:15
400-137886-4	MW-7	Water	05/12/17 07:42	05/13/17 08:15
400-137886-5	MW-8	Water	05/12/17 14:27	05/13/17 08:15
400-137886-6	MW-9	Water	05/12/17 12:07	05/13/17 08:15
400-137886-7	MW-10	Water	05/12/17 11:00	05/13/17 08:15
400-137886-8	MW-11	Water	05/12/17 09:09	05/13/17 08:15
400-137886-9	MW-12	Water	05/11/17 09:56	05/13/17 08:15
400-137886-10	MW-13	Water	05/12/17 15:21	05/13/17 08:15
400-137886-11	MW-14	Water	05/12/17 13:27	05/13/17 08:15
400-137886-12	DUP-01	Water	05/11/17 08:56	05/13/17 08:15
400-137886-13	EB-01	Water	05/12/17 12:25	05/13/17 08:15
400-137886-14	FB-01	Water	05/12/17 11:15	05/13/17 08:15
400-137886-15	DUP-02	Water	05/12/17 06:42	05/13/17 08:15
400-137886-16	EB-02	Water	05/12/17 15:30	05/13/17 08:15
400-137886-17	FB-02	Water	05/12/17 14:00	05/13/17 08:15

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-2
Date Collected: 05/11/17 11:17
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-1
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	0.910		0.173	0.191	1.00	0.0708	pCi/L	05/17/17 09:25	06/08/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					05/17/17 09:25	06/08/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.229	U	0.240	0.240	1.00	0.391	pCi/L	05/17/17 09:48	06/01/17 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					05/17/17 09:48	06/01/17 10:47	1
Y Carrier	79.6		40 - 110					05/17/17 09:48	06/01/17 10:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.14		0.295	0.307	5.00	0.391	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-3
Date Collected: 05/11/17 14:18
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-2
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	0.946		0.174	0.194	1.00	0.0874	pCi/L	05/17/17 09:25	06/08/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					05/17/17 09:25	06/08/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.395		0.225	0.228	1.00	0.335	pCi/L	05/17/17 09:48	06/01/17 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					05/17/17 09:48	06/01/17 10:47	1
Y Carrier	78.1		40 - 110					05/17/17 09:48	06/01/17 10:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.34		0.285	0.300	5.00	0.335	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-6
Date Collected: 05/11/17 15:34
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-3
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	8.97		0.518	0.959	1.00	0.0745	pCi/L	05/17/17 09:25	06/08/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					05/17/17 09:25	06/08/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	16.5		0.816	1.73	1.00	0.287	pCi/L	05/17/17 09:48	06/01/17 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110					05/17/17 09:48	06/01/17 10:47	1
Y Carrier	86.4		40 - 110					05/17/17 09:48	06/01/17 10:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	25.5		0.967	1.97	5.00	0.287	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-7
Date Collected: 05/12/17 07:42
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-4
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	15.8		0.682	1.58	1.00	0.0741	pCi/L	05/17/17 09:25	06/08/17 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					05/17/17 09:25	06/08/17 08:27	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.88		0.485	0.661	1.00	0.335	pCi/L	05/17/17 09:48	06/01/17 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					05/17/17 09:48	06/01/17 10:47	1
Y Carrier	81.5		40 - 110					05/17/17 09:48	06/01/17 10:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	20.7		0.837	1.71	5.00	0.335	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-8
Date Collected: 05/12/17 14:27
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-5
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	12.6		0.622	1.30	1.00	0.112	pCi/L	05/17/17 09:25	06/08/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					05/17/17 09:25	06/08/17 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	20.9		0.901	2.12	1.00	0.325	pCi/L	05/17/17 09:48	06/01/17 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					05/17/17 09:48	06/01/17 10:47	1
Y Carrier	81.9		40 - 110					05/17/17 09:48	06/01/17 10:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	33.5		1.09	2.49	5.00	0.325	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-9
Date Collected: 05/12/17 12:07
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-6
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	11.0		0.610	1.16	1.00	0.122	pCi/L	05/17/17 09:25	06/08/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					05/17/17 09:25	06/08/17 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	9.18		0.654	1.07	1.00	0.333	pCi/L	05/17/17 09:48	06/01/17 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					05/17/17 09:48	06/01/17 10:47	1
Y Carrier	84.5		40 - 110					05/17/17 09:48	06/01/17 10:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	20.2		0.895	1.58	5.00	0.333	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-10
Date Collected: 05/12/17 11:00
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-7
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	5.88		0.467	0.706	1.00	0.115	pCi/L	05/17/17 09:25	06/08/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					05/17/17 09:25	06/08/17 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	18.1		0.911	1.90	1.00	0.352	pCi/L	05/17/17 09:48	06/01/17 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					05/17/17 09:48	06/01/17 10:48	1
Y Carrier	82.2		40 - 110					05/17/17 09:48	06/01/17 10:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	24.0		1.02	2.03	5.00	0.352	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-11
Date Collected: 05/12/17 09:09
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-8
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	14.8		0.726	1.52	1.00	0.105	pCi/L	05/17/17 09:25	06/08/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					05/17/17 09:25	06/08/17 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	4.12		0.470	0.603	1.00	0.393	pCi/L	05/17/17 09:48	06/01/17 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		40 - 110					05/17/17 09:48	06/01/17 10:48	1
Y Carrier	84.5		40 - 110					05/17/17 09:48	06/01/17 10:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	19.0		0.864	1.64	5.00	0.393	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-12
Date Collected: 05/11/17 09:56
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-9
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	1.65		0.239	0.281	1.00	0.109	pCi/L	05/17/17 09:25	06/08/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					05/17/17 09:25	06/08/17 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.474		0.244	0.248	1.00	0.361	pCi/L	05/17/17 09:48	06/01/17 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.2		40 - 110					05/17/17 09:48	06/01/17 10:48	1
Y Carrier	81.5		40 - 110					05/17/17 09:48	06/01/17 10:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.12		0.342	0.375	5.00	0.361	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-13
Date Collected: 05/12/17 15:21
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-10
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	4.58		0.394	0.570	1.00	0.122	pCi/L	05/17/17 09:25	06/08/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					05/17/17 09:25	06/08/17 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.73		0.555	0.766	1.00	0.442	pCi/L	05/17/17 09:48	06/01/17 10:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		40 - 110					05/17/17 09:48	06/01/17 10:43	1
Y Carrier	81.1		40 - 110					05/17/17 09:48	06/01/17 10:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	10.3		0.681	0.955	5.00	0.442	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-14
Date Collected: 05/12/17 13:27
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-11
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	3.50		0.352	0.473	1.00	0.113	pCi/L	05/17/17 09:25	06/08/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					05/17/17 09:25	06/08/17 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.33		0.548	0.736	1.00	0.448	pCi/L	05/17/17 09:48	06/01/17 10:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					05/17/17 09:48	06/01/17 10:43	1
Y Carrier	81.5		40 - 110					05/17/17 09:48	06/01/17 10:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	8.83		0.652	0.874	5.00	0.448	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: DUP-01

Date Collected: 05/11/17 08:56

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-12

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	1.73		0.247	0.292	1.00	0.0974	pCi/L	05/17/17 09:25	06/08/17 08:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					05/17/17 09:25	06/08/17 08:31	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.286	U	0.305	0.306	1.00	0.500	pCi/L	05/17/17 09:48	06/01/17 10:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					05/17/17 09:48	06/01/17 10:43	1
Y Carrier	78.1		40 - 110					05/17/17 09:48	06/01/17 10:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.02		0.392	0.423	5.00	0.500	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: EB-01
Date Collected: 05/12/17 12:25
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-13
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	0.162		0.101	0.102	1.00	0.138	pCi/L	05/17/17 09:25	06/08/17 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/17/17 09:25	06/08/17 08:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0955	U	0.237	0.237	1.00	0.407	pCi/L	05/17/17 09:48	06/01/17 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		40 - 110					05/17/17 09:48	06/01/17 10:44	1
Y Carrier	84.5		40 - 110					05/17/17 09:48	06/01/17 10:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.258	U	0.257	0.258	5.00	0.407	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: FB-01
Date Collected: 05/12/17 11:15
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-14
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	-0.0201	U	0.0454	0.0454	1.00	0.110	pCi/L	05/17/17 09:25	06/08/17 08:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					05/17/17 09:25	06/08/17 08:32	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.262	U	0.216	0.217	1.00	0.343	pCi/L	05/17/17 09:48	06/01/17 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	104		40 - 110					05/17/17 09:48	06/01/17 10:44	1
Y Carrier	83.7		40 - 110					05/17/17 09:48	06/01/17 10:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.242	U	0.220	0.222	5.00	0.343	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: DUP-02

Date Collected: 05/12/17 06:42

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-15

Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	17.4		0.742	1.74	1.00	0.0988	pCi/L	05/17/17 09:25	06/08/17 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					05/17/17 09:25	06/08/17 08:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	5.00		0.527	0.700	1.00	0.453	pCi/L	05/17/17 09:48	06/01/17 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.4		40 - 110					05/17/17 09:48	06/01/17 10:44	1
Y Carrier	79.6		40 - 110					05/17/17 09:48	06/01/17 10:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	22.4		0.910	1.87	5.00	0.453	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: EB-02
Date Collected: 05/12/17 15:30
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-16
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0490	U	0.0662	0.0664	1.00	0.111	pCi/L	05/17/17 09:25	06/08/17 08:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					05/17/17 09:25	06/08/17 08:37	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0136	U	0.246	0.246	1.00	0.436	pCi/L	05/17/17 09:48	06/01/17 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					05/17/17 09:48	06/01/17 10:44	1
Y Carrier	75.1		40 - 110					05/17/17 09:48	06/01/17 10:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0626	U	0.254	0.255	5.00	0.436	pCi/L		06/12/17 11:55	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: FB-02
Date Collected: 05/12/17 14:00
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-17
Matrix: Water

Method: 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0239	U	0.0449	0.0449	1.00	0.0815	pCi/L	05/17/17 09:25	06/08/17 08:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					05/17/17 09:25	06/08/17 08:38	1

Method: 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.344	U	0.280	0.282	1.00	0.447	pCi/L	05/17/17 09:48	06/01/17 10:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					05/17/17 09:48	06/01/17 10:44	1
Y Carrier	68.0		40 - 110					05/17/17 09:48	06/01/17 10:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.368	U	0.284	0.286	5.00	0.447	pCi/L		06/12/17 11:55	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-2
Date Collected: 05/11/17 11:17
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312379	06/08/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311426	06/01/17 10:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: MW-3
Date Collected: 05/11/17 14:18
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312379	06/08/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311426	06/01/17 10:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: MW-6
Date Collected: 05/11/17 15:34
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312379	06/08/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311426	06/01/17 10:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: MW-7
Date Collected: 05/12/17 07:42
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312379	06/08/17 08:27	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311426	06/01/17 10:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-8
Date Collected: 05/12/17 14:27
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311426	06/01/17 10:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: MW-9
Date Collected: 05/12/17 12:07
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311426	06/01/17 10:47	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: MW-10
Date Collected: 05/12/17 11:00
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311426	06/01/17 10:48	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: MW-11
Date Collected: 05/12/17 09:09
Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311426	06/01/17 10:48	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: MW-12

Date Collected: 05/11/17 09:56

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311426	06/01/17 10:48	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: MW-13

Date Collected: 05/12/17 15:21

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311519	06/01/17 10:43	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: MW-14

Date Collected: 05/12/17 13:27

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311519	06/01/17 10:43	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: DUP-01

Date Collected: 05/11/17 08:56

Date Received: 05/13/17 08:15

Lab Sample ID: 400-137886-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:31	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311519	06/01/17 10:43	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: EB-01

Lab Sample ID: 400-137886-13

Date Collected: 05/12/17 12:25

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:32	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311519	06/01/17 10:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: FB-01

Lab Sample ID: 400-137886-14

Date Collected: 05/12/17 11:15

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312570	06/08/17 08:32	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311519	06/01/17 10:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: DUP-02

Lab Sample ID: 400-137886-15

Date Collected: 05/12/17 06:42

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312378	06/08/17 08:37	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311519	06/01/17 10:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Client Sample ID: EB-02

Lab Sample ID: 400-137886-16

Date Collected: 05/12/17 15:30

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312378	06/08/17 08:37	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311519	06/01/17 10:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	RTM	TAL SL

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Client Sample ID: FB-02

Lab Sample ID: 400-137886-17

Date Collected: 05/12/17 14:00

Matrix: Water

Date Received: 05/13/17 08:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			309098	05/17/17 09:25	LDE	TAL SL
Total/NA	Analysis	9315		1	312378	06/08/17 08:38	ALD	TAL SL
Total/NA	Prep	PrecSep_0			309106	05/17/17 09:48	LDE	TAL SL
Total/NA	Analysis	9320		1	311519	06/01/17 10:44	RTM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	313033	06/12/17 11:55	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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Rad

Prep Batch: 309098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total/NA	Water	PrecSep-21	
400-137886-2	MW-3	Total/NA	Water	PrecSep-21	
400-137886-3	MW-6	Total/NA	Water	PrecSep-21	
400-137886-4	MW-7	Total/NA	Water	PrecSep-21	
400-137886-5	MW-8	Total/NA	Water	PrecSep-21	
400-137886-6	MW-9	Total/NA	Water	PrecSep-21	
400-137886-7	MW-10	Total/NA	Water	PrecSep-21	
400-137886-8	MW-11	Total/NA	Water	PrecSep-21	
400-137886-9	MW-12	Total/NA	Water	PrecSep-21	
400-137886-10	MW-13	Total/NA	Water	PrecSep-21	
400-137886-11	MW-14	Total/NA	Water	PrecSep-21	
400-137886-12	DUP-01	Total/NA	Water	PrecSep-21	
400-137886-13	EB-01	Total/NA	Water	PrecSep-21	
400-137886-14	FB-01	Total/NA	Water	PrecSep-21	
400-137886-15	DUP-02	Total/NA	Water	PrecSep-21	
400-137886-16	EB-02	Total/NA	Water	PrecSep-21	
400-137886-17	FB-02	Total/NA	Water	PrecSep-21	
MB 160-309098/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-309098/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-309098/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

Prep Batch: 309106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-137886-1	MW-2	Total/NA	Water	PrecSep_0	
400-137886-2	MW-3	Total/NA	Water	PrecSep_0	
400-137886-3	MW-6	Total/NA	Water	PrecSep_0	
400-137886-4	MW-7	Total/NA	Water	PrecSep_0	
400-137886-5	MW-8	Total/NA	Water	PrecSep_0	
400-137886-6	MW-9	Total/NA	Water	PrecSep_0	
400-137886-7	MW-10	Total/NA	Water	PrecSep_0	
400-137886-8	MW-11	Total/NA	Water	PrecSep_0	
400-137886-9	MW-12	Total/NA	Water	PrecSep_0	
400-137886-10	MW-13	Total/NA	Water	PrecSep_0	
400-137886-11	MW-14	Total/NA	Water	PrecSep_0	
400-137886-12	DUP-01	Total/NA	Water	PrecSep_0	
400-137886-13	EB-01	Total/NA	Water	PrecSep_0	
400-137886-14	FB-01	Total/NA	Water	PrecSep_0	
400-137886-15	DUP-02	Total/NA	Water	PrecSep_0	
400-137886-16	EB-02	Total/NA	Water	PrecSep_0	
400-137886-17	FB-02	Total/NA	Water	PrecSep_0	
MB 160-309106/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-309106/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-309106/3-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-309098/1-A
Matrix: Water
Analysis Batch: 312379

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309098

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.05037	U	0.0334	0.0337	1.00	0.106	pCi/L	05/17/17 09:25	06/08/17 08:27	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					05/17/17 09:25	06/08/17 08:27	1

Lab Sample ID: LCS 160-309098/2-A
Matrix: Water
Analysis Batch: 312379

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309098

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-226	11.4	9.391		0.996	1.00	0.0766	pCi/L	83	68 - 137
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	98.8		40 - 110						

Lab Sample ID: LCSD 160-309098/3-A
Matrix: Water
Analysis Batch: 312379

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 309098

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-226	11.4	8.943		0.956	1.00	0.0734	pCi/L	79	68 - 137	0.23	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits								
Ba Carrier	97.1		40 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-309106/1-A
Matrix: Water
Analysis Batch: 311426

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309106

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1845	U	0.206	0.207	1.00	0.338	pCi/L	05/17/17 09:48	06/01/17 10:47	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.7		40 - 110					05/17/17 09:48	06/01/17 10:47	1
Y Carrier	83.0		40 - 110					05/17/17 09:48	06/01/17 10:47	1

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

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

Lab Sample ID: LCS 160-309106/2-A
Matrix: Water
Analysis Batch: 311426

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309106

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	13.4	14.29		1.53	1.00	0.355	pCi/L	107	56 - 140

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.8		40 - 110
Y Carrier	83.0		40 - 110

Lab Sample ID: LCSD 160-309106/3-A
Matrix: Water
Analysis Batch: 311426

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 309106

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Radium-228	13.4	14.25		1.52	1.00	0.333	pCi/L	107	56 - 140	0.01	1

Carrier	LCSD %Yield	LCSD Qualifier	Limits
Ba Carrier	97.1		40 - 110
Y Carrier	84.5		40 - 110

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

Lab Sample ID: 400-137872-A-3 DU
Matrix: Water
Analysis Batch: 313033

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	1.41		1.134		0.366	5.00	0.464	pCi/L	0.36	

Chain of Custody Record

Client Information		Lab PM: Whitmire, Cheyenne R		Carrier Tracking No(s):		COC No: 400-53436-23565.1	
Client Contact: Kristi Mitchell		Phone: 850 380 3458		E-Mail: cheyenne.whitmire@testamericainc.com		Page: Page 1 of 2	
Company: Gulf Power Company		Due Date Requested:		Analysis Requested		Job #:	
Address: BIN 731 One Energy Place		TAT Requested (days):		4500_F_C - Fluoride		Preservation Codes:	
City: Pensacola		PO #: Purchase Order not required		2540C - Total Dissolved Solids		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:	
State, Zip: FL, 32520		WO #:		6020, 7470A		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)	
Phone: 850-444-6427(Tel)		Project #: 40006609		Field Sampling - Field Sampling Parameters		Total Number of Containers	
Email: krmitch@southernco.com		SSOW#:		SM4500_C1_E, SM4500_S04_E		Special Instructions/Note:	
Project Name: CCR Smith Plant		Event Desc: CCR Smith Plant		9315_Ra226, 9320_Ra228			
Site: Florida		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil/sediment, A=air)	Special Instructions/Note:	
MW-02	5/11/17	1117	G	Water			
MW-03	5/11/17	1418		Water			
MW-06	5/11/17	1534		Water			
MW-07	5/12/17	0742		Water			
MW-08	5/12/17	1427		Water			
MW-09	5/12/17	1207		Water			
MW-10	5/12/17	1100		Water			
MW-11	5/12/17	0909		Water			
MW-12	5/11/17	0956		Water			
MW-13	5/12/17	1523		Water			
MW-14	5/12/17	1327	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)			
Deliverable Requested: I, II, III, IV, Other (specify)		Date: 5/13/17 0815		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: <i>BWG</i>		Date: 5/13/17 0815		Received by: <i>[Signature]</i>		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Date/Time: 5/13/17 0815		Received by: <i>[Signature]</i>		Date/Time: 5/13/17 0815	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature: 4.0°C		Other Remarks: <i>[Handwritten]</i>	



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-137886-2
SDG Number: CCR Smith Plant

Login Number: 137886

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, 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

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	06-30-18
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	06-30-17 *
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	03-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Pensacola

Accreditation/Certification Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-137886-2
SDG: CCR Smith Plant

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

FIELD SAMPLING REPORTS
INITIAL DETECTION EVENT

Product Name: Low-Flow System

Date: 2017-10-12 09:33:11

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 28 ft

Pump placement from TOC 21 ft

Well Information:

Well ID MW-02
Well diameter 2 in
Well Total Depth 26 ft
Screen Length 10 ft
Depth to Water 6.02 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2149758 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 20 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	09:11:31	300.06	24.01	6.41	353.03	1.55	7.49	0.16	-66.67
Last 5	09:16:31	600.03	24.05	6.49	313.29	1.07	7.61	0.16	-76.72
Last 5	09:21:31	900.02	24.09	6.55	330.22	0.85	7.78	0.14	-77.47
Last 5	09:26:31	1200.03	24.10	6.61	336.88	0.77	7.84	0.12	-77.16
Last 5	09:31:31	1500.02	24.09	6.66	344.35	0.91	7.88	0.11	-76.64
Variance 0			0.04	0.07	16.93			-0.03	-0.75
Variance 1			0.01	0.06	6.67			-0.01	0.30
Variance 2			-0.01	0.05	7.47			-0.01	0.52

Notes

Sample@0932, DUP-01@0832 Sunny 77

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 11:57:22

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-03
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 7.11 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.11 in
Total Volume Pumped 46 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	11:35:59	5701.02	23.36	4.73	55.46	26.30	7.22	0.19	66.01
Last 5	11:40:59	6001.02	23.45	4.74	55.31	24.80	7.22	0.22	64.41
Last 5	11:45:59	6301.02	23.46	4.73	55.59	22.30	7.22	0.18	63.13
Last 5	11:50:59	6601.02	23.42	4.73	55.57	20.60	7.22	0.24	62.37
Last 5	11:55:59	6901.02	23.55	4.74	55.45	19.30	7.22	0.17	61.39
Variance 0			0.02	-0.01	0.28			-0.04	-1.29
Variance 1			-0.04	0.00	-0.03			0.06	-0.76
Variance 2			0.13	0.00	-0.12			-0.07	-0.97

Notes

Sample@1156, cloudy 79

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 16:23:23

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 13.91 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 27 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	16:02:32	2100.02	25.36	5.68	9550.51	1.35	16.27	0.38	-154.64
Last 5	16:07:32	2400.03	25.45	5.53	10167.45	1.73	16.27	0.32	-144.05
Last 5	16:12:32	2700.02	25.44	5.45	10502.91	1.97	16.27	0.36	-137.07
Last 5	16:17:32	3000.02	25.41	5.41	10698.58	2.21	16.27	0.34	-133.90
Last 5	16:22:32	3300.01	25.50	5.37	10819.58	2.34	16.27	0.35	-131.18
Variance 0			-0.01	-0.08	335.47			0.05	6.98
Variance 1			-0.03	-0.04	195.67			-0.03	3.17
Variance 2			0.09	-0.04	121.00			0.02	2.72

Notes

Sample@1623, Cloudy 88

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 15:09:08

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-07
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 12.28 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.62 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%	+/- 10		+/- 0.2	+/- 10
Last 5	14:46:58	900.02	25.54	5.28	6466.19	3.95	12.90	0.18	-128.37
Last 5	14:51:58	1200.03	25.37	5.72	6321.93	4.56	12.90	0.25	-151.49
Last 5	14:56:58	1500.02	25.14	6.08	6342.56	4.80	12.90	0.26	-183.95
Last 5	15:01:58	1800.02	25.28	6.12	6352.89	5.21	12.90	0.33	-190.23
Last 5	15:06:58	2100.02	25.16	6.13	6329.15	4.91	12.90	0.38	-192.33
Variance 0			-0.23	0.36	20.64			0.01	-32.45
Variance 1			0.14	0.03	10.33			0.07	-6.28
Variance 2			-0.12	0.01	-23.74			0.05	-2.10

Notes

Sample @1508, Cloudy 87

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-13 08:41:17

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 15.06 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 43 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%	+/- 10		+/- 0.2	+/- 10
Last 5	08:19:20	900.02	23.77	3.52	12314.11	2.93	18.65	0.20	-30.53
Last 5	08:24:20	1200.02	23.78	4.07	12560.28	1.79	18.73	0.24	-65.14
Last 5	08:29:20	1500.03	23.78	4.39	12610.44	0.93	18.79	0.24	-88.80
Last 5	08:34:20	1800.02	23.80	4.43	12623.83	0.99	18.80	0.24	-88.75
Last 5	08:39:21	2101.02	23.81	4.46	12626.68	1.05	18.80	0.23	-88.90
Variance 0			-0.00	0.32	50.16			0.00	-23.67
Variance 1			0.02	0.04	13.39			-0.00	0.06
Variance 2			0.01	0.04	2.84			-0.01	-0.15

Notes

Sample @0840, DUP-02 0740 Sunny 80

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-13 10:36:57

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-09
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 10.49 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13 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%	+/- 10		+/- 0.2	+/- 10
Last 5	10:15:18	900.03	27.01	4.60	9835.50	14.60	11.57	0.17	-75.37
Last 5	10:20:18	1200.02	27.05	4.69	9818.29	8.42	11.60	0.17	-78.04
Last 5	10:25:18	1500.02	26.86	4.78	9758.19	5.39	11.62	0.15	-80.86
Last 5	10:30:18	1800.02	26.98	4.85	9803.60	5.03	11.62	0.14	-84.08
Last 5	10:35:18	2100.02	26.87	4.95	9755.74	4.89	11.62	0.14	-87.50
Variance 0			-0.19	0.09	-60.09			-0.02	-2.82
Variance 1			0.13	0.07	45.41			-0.01	-3.21
Variance 2			-0.11	0.09	-47.86			-0.00	-3.42

Notes

Sample@1036, EB-01@1045 Sunny 85

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-13 11:24:49

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 6.52 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.48 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	11:08:56	300.07	27.72	5.38	10790.53	3.67	6.89	0.27	-148.67
Last 5	11:13:56	600.02	27.97	5.38	10828.41	3.46	6.95	0.22	-150.48
Last 5	11:18:56	900.02	28.02	5.41	10833.60	1.42	6.99	0.19	-152.34
Last 5	11:23:56	1200.02	28.08	5.33	10860.65	1.23	7.00	0.19	-146.82
Last 5									
Variance 0			0.25	-0.00	37.88			-0.05	-1.81
Variance 1			0.05	0.03	5.20			-0.03	-1.86
Variance 2			0.05	-0.08	27.05			-0.01	5.52

Notes

Sample @1124, FB-02@1115, Sunny 87

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-13 12:13:04

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 9.5 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.77 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	11:56:20	300.03	26.57	6.80	6182.83	1.77	10.00	0.10	-247.28
Last 5	12:01:20	600.02	26.83	6.77	6266.94	2.28	10.22	0.09	-248.41
Last 5	12:06:20	900.02	26.88	6.76	6202.15	2.56	10.25	0.08	-249.85
Last 5	12:11:20	1200.02	26.87	6.73	6195.36	2.29	10.27	0.09	-250.27
Last 5									
Variance 0			0.26	-0.03	84.11			-0.01	-1.13
Variance 1			0.06	-0.01	-64.79			-0.00	-1.44
Variance 2			-0.01	-0.03	-6.79			0.00	-0.43

Notes

Sample@1212, EB-02@1225 Sunny 88

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-12 13:49:45

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 34 ft

Pump placement from TOC 27 ft

Well Information:

Well ID MW-12
Well diameter 2 in
Well Total Depth 32 ft
Screen Length 10 ft
Depth to Water 9.26 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2417564 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 48.6 in
Total Volume Pumped 32 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	13:28:12	3600.02	26.80	5.94	1093.34	1.41	14.01	1.11	-43.50
Last 5	13:33:12	3900.02	26.86	5.93	1081.35	1.55	14.02	1.41	-42.19
Last 5	13:38:12	4200.02	26.99	5.92	1073.24	1.48	14.02	1.18	-38.74
Last 5	13:43:13	4501.02	26.94	5.91	1056.67	1.33	14.02	1.38	-39.74
Last 5	13:48:13	4801.02	26.93	5.90	1050.08	1.29	14.02	1.36	-41.19
Variance 0			0.13	-0.01	-8.11			-0.23	3.45
Variance 1			-0.05	-0.01	-16.57			0.20	-1.01
Variance 2			-0.01	-0.01	-6.59			-0.01	-1.44

Notes

Sample@1349, Partly Cloudy 85

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-13 07:40:14

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 15.4 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 36 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	07:19:15	300.06	23.56	6.86	16896.27	3.41	17.35	0.31	-272.26
Last 5	07:24:15	600.02	23.51	6.92	16740.71	1.97	18.09	0.27	-272.88
Last 5	07:29:15	900.02	23.51	6.90	16924.56	1.30	18.33	0.20	-277.40
Last 5	07:34:15	1200.02	23.54	6.89	17013.82	1.07	18.40	0.20	-281.63
Last 5	07:39:15	1500.02	23.58	6.87	17068.59	0.98	18.43	0.18	-285.98
Variance 0			0.00	-0.02	183.85			-0.08	-4.52
Variance 1			0.03	-0.02	89.25			0.00	-4.23
Variance 2			0.04	-0.01	54.77			-0.02	-4.34

Notes

Sample @0739, Sunny 75

Grab Samples

Product Name: Low-Flow System

Date: 2017-10-13 09:39:00

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith
Site Name Smith App111
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 43 ft

Pump placement from TOC 37 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41 ft
Screen Length 10 ft
Depth to Water 21.42 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.9 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	09:21:42	300.03	23.74	6.64	9587.78	3.97	22.21	0.27	-225.27
Last 5	09:26:42	600.02	23.78	6.67	9556.53	6.96	22.28	0.19	-226.42
Last 5	09:31:42	900.02	23.83	6.68	9509.74	4.41	22.31	0.19	-225.81
Last 5	09:36:42	1200.02	23.83	6.68	9528.57	1.83	22.32	0.17	-225.99
Last 5									
Variance 0			0.04	0.02	-31.26			-0.08	-1.14
Variance 1			0.05	0.01	-46.79			0.00	0.60
Variance 2			0.00	0.00	18.83			-0.02	-0.18

Notes

Sample @0938, FB-01@0920 Sunny 83

Grab Samples

**LABORATORY ANALYTICAL
INITIAL DETECTION EVENT**

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: 400-144630-1

TestAmerica Sample Delivery Group: App III

Client Project/Site: CCR Smith Plant

Sampling Event: CCR Smith Plant

For:

Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

10/31/2017 4:51:23 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Job ID: 400-144630-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-144630-1

Metals

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06 (400-144630-3), MW-07 (400-144630-4), MW-08 (400-144630-5), MW-09 (400-144630-6), MW-10 (400-144630-7), MW-11 (400-144630-8), MW-13 (400-144630-10), MW-14 (400-144630-11) and DUP-02 (400-144630-15). Elevated reporting limits (RLs) are provided.

General Chemistry

Method(s) SM 4500 F C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 374068 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. MS/MSD recoveries should have been 75 however the samples were recovered at 66. The RPD limit is 4 RPD of sample was 0.

Method(s) SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06 (400-144630-3), MW-07 (400-144630-4), MW-08 (400-144630-5), MW-09 (400-144630-6), MW-10 (400-144630-7), MW-11 (400-144630-8), MW-12 (400-144630-9), MW-13 (400-144630-10), MW-14 (400-144630-11), DUP-02 (400-144630-15), EB-02 (400-144630-16) and FB-02 (400-144630-17). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 373171 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 following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06 (400-144630-3), MW-07 (400-144630-4), MW-08 (400-144630-5), MW-09 (400-144630-6), MW-10 (400-144630-7), MW-11 (400-144630-8), MW-13 (400-144630-10), MW-14 (400-144630-11) and DUP-02 (400-144630-15). Elevated reporting limits (RLs) are provided.

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-02

Lab Sample ID: 400-144630-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	45		0.25	0.13	mg/L	5		6020	Total
Total Dissolved Solids	150		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	12		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.27		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	6.66				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 400-144630-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	1.9		0.25	0.13	mg/L	5		6020	Total
Total Dissolved Solids	30		5.0	3.4	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	12		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-06

Lab Sample ID: 400-144630-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	8.5		1.0	0.42	mg/L	100		6020	Total
Calcium - DL	280		5.0	2.5	mg/L	100		6020	Recoverable Total
Total Dissolved Solids	5500		25	17	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	3000		140	42	mg/L	70		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	520		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	5.37				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-07

Lab Sample ID: 400-144630-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	2.9		0.25	0.11	mg/L	25		6020	Total
Calcium - DL	190		1.3	0.63	mg/L	25		6020	Recoverable Total
Total Dissolved Solids	3000		25	17	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	1400		60	18	mg/L	30		SM 4500 Cl- E	Total/NA
Sulfate	670		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	6.13				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 400-144630-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	15		1.0	0.42	mg/L	100		6020	Total
Calcium - DL	560		5.0	2.5	mg/L	100		6020	Recoverable Total
Total Dissolved Solids	6400		25	17	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	3300		140	42	mg/L	70		SM 4500 Cl- E	Total/NA
Sulfate	910		200	56	mg/L	40		SM 4500 SO4 E	Total/NA
Field pH	4.46				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-09

Lab Sample ID: 400-144630-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	9.6		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	370		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	5100		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2400		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	760		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	4.95				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-144630-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	11		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	520		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	6400		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2900		140	42	mg/L	70		SM 4500 Cl- E	Total/NA
Sulfate	790		150	42	mg/L	30		SM 4500 SO4 E	Total/NA
Field pH	5.33				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-144630-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	3.9		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	83		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3000		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	1600		80	24	mg/L	40		SM 4500 Cl- E	Total/NA
Sulfate	220		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Field pH	6.73				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 400-144630-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.082		0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	32		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	470		5.0	3.4	mg/L	1		SM 2540C	Total/NA
Chloride	190		10	3.0	mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.12		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Field pH	5.90				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-144630-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	17		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	810		10	5.0	mg/L	200		6020	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-13 (Continued)

Lab Sample ID: 400-144630-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	9600		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	4800		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Fluoride	0.040	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	1000		200	56	mg/L	40		SM 4500 SO4 E	Total/NA
Field pH	6.87				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-144630-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	12		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	300		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	5000		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2400		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Fluoride	0.050	I	0.10	0.032	mg/L	1		SM 4500 F C	Total/NA
Sulfate	650		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	6.68				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-144630-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.021	I	0.050	0.021	mg/L	5		6020	Total Recoverable
Calcium	45		0.25	0.13	mg/L	5		6020	Total Recoverable
Total Dissolved Solids	130		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	0.26		0.10	0.032	mg/L	1		SM 4500 F C	Total/NA

Client Sample ID: EB-01

Lab Sample ID: 400-144630-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.77	I	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: FB-01

Lab Sample ID: 400-144630-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	0.62	I	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 400-144630-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	15		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	550		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	7100		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	3400		140	42	mg/L	70		SM 4500 Cl- E	Total/NA
Sulfate	910		200	56	mg/L	40		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: EB-02

Lab Sample ID: 400-144630-16

No Detections.

Client Sample ID: FB-02

Lab Sample ID: 400-144630-17

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-144630-1	MW-02	Water	10/12/17 09:32	10/14/17 08:48
400-144630-2	MW-03	Water	10/12/17 11:56	10/14/17 08:48
400-144630-3	MW-06	Water	10/12/17 16:23	10/14/17 08:48
400-144630-4	MW-07	Water	10/12/17 15:08	10/14/17 08:48
400-144630-5	MW-08	Water	10/13/17 08:40	10/14/17 08:48
400-144630-6	MW-09	Water	10/13/17 10:36	10/14/17 08:48
400-144630-7	MW-10	Water	10/13/17 11:24	10/14/17 08:48
400-144630-8	MW-11	Water	10/13/17 12:12	10/14/17 08:48
400-144630-9	MW-12	Water	10/12/17 13:49	10/14/17 08:48
400-144630-10	MW-13	Water	10/13/17 07:39	10/14/17 08:48
400-144630-11	MW-14	Water	10/13/17 09:38	10/14/17 08:48
400-144630-12	DUP-01	Water	10/12/17 08:32	10/14/17 08:48
400-144630-13	EB-01	Water	10/13/17 10:45	10/14/17 08:48
400-144630-14	FB-01	Water	10/13/17 09:20	10/14/17 08:48
400-144630-15	DUP-02	Water	10/13/17 07:40	10/14/17 08:48
400-144630-16	EB-02	Water	10/13/17 12:25	10/14/17 08:48
400-144630-17	FB-02	Water	10/13/17 11:15	10/14/17 08:48

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-02
Date Collected: 10/12/17 09:32
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		10/18/17 13:58	10/20/17 14:11	5
Calcium	45		0.25	0.13	mg/L		10/18/17 13:58	10/20/17 14:11	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	150		5.0	3.4	mg/L			10/19/17 16:01	1
Chloride	12		2.0	0.60	mg/L			10/25/17 07:28	1
Fluoride	0.27		0.10	0.032	mg/L			10/31/17 10:47	1
Sulfate	1.4	U	5.0	1.4	mg/L			10/24/17 07:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.66				SU			10/12/17 09:32	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-03
Date Collected: 10/12/17 11:56
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		10/18/17 13:58	10/20/17 15:28	5
Calcium	1.9		0.25	0.13	mg/L		10/18/17 13:58	10/20/17 15:28	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	30		5.0	3.4	mg/L			10/19/17 16:01	1
Chloride	12		2.0	0.60	mg/L			10/25/17 07:47	1
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 10:49	1
Sulfate	1.4	U	5.0	1.4	mg/L			10/24/17 08:11	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.74				SU			10/12/17 11:56	1



Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: MW-06
Date Collected: 10/12/17 16:23
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	8.5		1.0	0.42	mg/L		10/18/17 13:58	10/20/17 15:37	100
Calcium	280		5.0	2.5	mg/L		10/18/17 13:58	10/20/17 15:37	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5500		25	17	mg/L			10/19/17 16:01	1
Chloride	3000		140	42	mg/L			10/25/17 08:18	70
Fluoride	0.040	I	0.10	0.032	mg/L			10/31/17 10:52	1
Sulfate	520		100	28	mg/L			10/24/17 08:40	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.37				SU			10/12/17 16:23	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-07

Date Collected: 10/12/17 15:08

Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-4

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.9		0.25	0.11	mg/L		10/18/17 13:58	10/20/17 15:41	25
Calcium	190		1.3	0.63	mg/L		10/18/17 13:58	10/20/17 15:41	25

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3000		25	17	mg/L			10/19/17 16:01	1
Chloride	1400		60	18	mg/L			10/25/17 08:18	30
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 10:55	1
Sulfate	670		100	28	mg/L			10/24/17 08:40	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.13				SU			10/12/17 15:08	1

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-08
Date Collected: 10/13/17 08:40
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	15		1.0	0.42	mg/L		10/18/17 13:58	10/20/17 15:46	100
Calcium	560		5.0	2.5	mg/L		10/18/17 13:58	10/20/17 15:46	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6400		25	17	mg/L			10/19/17 10:57	1
Chloride	3300		140	42	mg/L			10/25/17 08:18	70
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 11:15	1
Sulfate	910		200	56	mg/L			10/24/17 09:13	40

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.46				SU			10/13/17 08:40	1

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: MW-09
Date Collected: 10/13/17 10:36
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-6
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.6		1.0	0.42	mg/L		10/18/17 13:58	10/20/17 16:13	100
Calcium	370		5.0	2.5	mg/L		10/18/17 13:58	10/20/17 16:13	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5100		25	17	mg/L			10/20/17 13:18	1
Chloride	2400		100	30	mg/L			10/25/17 07:57	50
Fluoride	0.040	I	0.10	0.032	mg/L			10/31/17 11:18	1
Sulfate	760		150	42	mg/L			10/24/17 09:35	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.95				SU			10/13/17 10:36	1

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- 2
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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-10
Date Collected: 10/13/17 11:24
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-7
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11		1.0	0.42	mg/L		10/18/17 13:58	10/20/17 16:17	100
Calcium	520		5.0	2.5	mg/L		10/18/17 13:58	10/20/17 16:17	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6400		25	17	mg/L			10/20/17 13:18	1
Chloride	2900		140	42	mg/L			10/25/17 08:47	70
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 11:22	1
Sulfate	790		150	42	mg/L			10/24/17 09:37	30

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.33				SU			10/13/17 11:24	1

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: MW-11
Date Collected: 10/13/17 12:12
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-8
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.9		0.25	0.11	mg/L		10/18/17 13:58	10/20/17 16:22	25
Calcium	83		1.3	0.63	mg/L		10/18/17 13:58	10/20/17 16:22	25

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3000		25	17	mg/L			10/20/17 13:18	1
Chloride	1600		80	24	mg/L			10/25/17 08:47	40
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 11:23	1
Sulfate	220		50	14	mg/L			10/24/17 09:17	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.73				SU			10/13/17 12:12	1

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: MW-12
Date Collected: 10/12/17 13:49
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-9
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.082		0.050	0.021	mg/L		10/18/17 13:58	10/20/17 15:23	5
Calcium	32		0.25	0.13	mg/L		10/18/17 13:58	10/20/17 15:23	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	470		5.0	3.4	mg/L			10/19/17 10:57	1
Chloride	190		10	3.0	mg/L			10/25/17 08:18	5
Fluoride	0.12		0.10	0.032	mg/L			10/31/17 10:57	1
Sulfate	1.4	U	5.0	1.4	mg/L			10/24/17 07:52	1

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.90				SU			10/12/17 13:49	1

- 1
- 2
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- 13
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Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: MW-13
Date Collected: 10/13/17 07:39
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-10
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	17		2.0	0.84	mg/L		10/18/17 13:58	10/20/17 16:26	200
Calcium	810		10	5.0	mg/L		10/18/17 13:58	10/20/17 16:26	200

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	9600		25	17	mg/L			10/20/17 13:18	1
Chloride	4800		200	60	mg/L			10/25/17 09:24	100
Fluoride	0.040	I	0.10	0.032	mg/L			10/31/17 11:26	1
Sulfate	1000		200	56	mg/L			10/24/17 09:17	40

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.87				SU			10/13/17 07:39	1

- 1
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- 13
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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-14
Date Collected: 10/13/17 09:38
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-11
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		1.0	0.42	mg/L		10/18/17 13:58	10/20/17 16:31	100
Calcium	300		5.0	2.5	mg/L		10/18/17 13:58	10/20/17 16:31	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5000		25	17	mg/L			10/20/17 13:18	1
Chloride	2400		100	30	mg/L			10/25/17 08:21	50
Fluoride	0.050	I	0.10	0.032	mg/L			10/31/17 11:29	1
Sulfate	650		100	28	mg/L			10/24/17 08:52	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.68				SU			10/13/17 09:38	1

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: DUP-01
Date Collected: 10/12/17 08:32
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-12
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	I	0.050	0.021	mg/L		10/18/17 13:58	10/20/17 15:32	5
Calcium	45		0.25	0.13	mg/L		10/18/17 13:58	10/20/17 15:32	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	130		5.0	3.4	mg/L			10/19/17 10:57	1
Chloride	13		2.0	0.60	mg/L			10/25/17 07:28	1
Fluoride	0.26		0.10	0.032	mg/L			10/31/17 10:59	1
Sulfate	1.4	U	5.0	1.4	mg/L			10/24/17 07:52	1

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Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: EB-01
Date Collected: 10/13/17 10:45
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-13
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		10/18/17 13:58	10/20/17 15:05	5
Calcium	0.13	U	0.25	0.13	mg/L		10/18/17 13:58	10/20/17 15:05	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			10/20/17 13:18	1
Chloride	0.77	I	2.0	0.60	mg/L			10/25/17 07:48	1
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 11:31	1
Sulfate	1.4	U	5.0	1.4	mg/L			10/24/17 08:11	1

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: FB-01
Date Collected: 10/13/17 09:20
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-14
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		10/18/17 13:58	10/20/17 15:10	5
Calcium	0.13	U	0.25	0.13	mg/L		10/18/17 13:58	10/20/17 15:10	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			10/20/17 13:18	1
Chloride	0.62	I	2.0	0.60	mg/L			10/25/17 07:48	1
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 12:04	1
Sulfate	1.4	U	5.0	1.4	mg/L			10/24/17 08:11	1



Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: DUP-02
Date Collected: 10/13/17 07:40
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-15
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	15		1.0	0.42	mg/L		10/18/17 13:58	10/20/17 14:38	100
Calcium	550		5.0	2.5	mg/L		10/18/17 13:58	10/20/17 14:38	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	7100		25	17	mg/L			10/20/17 13:18	1
Chloride	3400		140	42	mg/L			10/25/17 08:48	70
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 12:08	1
Sulfate	910		200	56	mg/L			10/24/17 09:17	40

Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

Client Sample ID: EB-02
Date Collected: 10/13/17 12:25
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-16
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		10/18/17 13:58	10/20/17 15:14	5
Calcium	0.13	U	0.25	0.13	mg/L		10/18/17 13:58	10/20/17 15:14	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			10/20/17 13:18	1
Chloride	0.60	U	2.0	0.60	mg/L			10/25/17 07:49	1
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 12:10	1
Sulfate	1.4	U	5.0	1.4	mg/L			10/24/17 08:13	1



Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: FB-02
Date Collected: 10/13/17 11:15
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-17
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		10/18/17 13:58	10/20/17 15:19	5
Calcium	0.13	U	0.25	0.13	mg/L		10/18/17 13:58	10/20/17 15:19	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			10/20/17 13:18	1
Chloride	0.60	U	2.0	0.60	mg/L			10/25/17 07:49	1
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 12:12	1
Sulfate	1.4	U	5.0	1.4	mg/L			10/24/17 08:13	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation 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	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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-02

Date Collected: 10/12/17 09:32

Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372837	10/20/17 14:11	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372516	10/19/17 16:01	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	373171	10/25/17 07:28	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 10:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	373030	10/24/17 07:52	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/12/17 09:32	BWS	TAL PEN

Client Sample ID: MW-03

Date Collected: 10/12/17 11:56

Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372837	10/20/17 15:28	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372516	10/19/17 16:01	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	373171	10/25/17 07:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 10:49	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	373030	10/24/17 08:11	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/12/17 11:56	BWS	TAL PEN

Client Sample ID: MW-06

Date Collected: 10/12/17 16:23

Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	100	372837	10/20/17 15:37	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372516	10/19/17 16:01	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		70	373171	10/25/17 08:18	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 10:52	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	373030	10/24/17 08:40	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/12/17 16:23	BWS	TAL PEN

Client Sample ID: MW-07

Date Collected: 10/12/17 15:08

Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	25	372837	10/20/17 15:41	DRE	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-07

Date Collected: 10/12/17 15:08

Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	372516	10/19/17 16:01	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		30	373171	10/25/17 08:18	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 10:55	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	373030	10/24/17 08:40	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/12/17 15:08	BWS	TAL PEN

Client Sample ID: MW-08

Date Collected: 10/13/17 08:40

Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	100	372837	10/20/17 15:46	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372501	10/19/17 10:57	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		70	373171	10/25/17 08:18	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 11:15	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	373030	10/24/17 09:13	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/13/17 08:40	BWS	TAL PEN

Client Sample ID: MW-09

Date Collected: 10/13/17 10:36

Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	100	372837	10/20/17 16:13	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		50	373171	10/25/17 07:57	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 11:18	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	373030	10/24/17 09:35	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/13/17 10:36	BWS	TAL PEN

Client Sample ID: MW-10

Date Collected: 10/13/17 11:24

Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	100	372837	10/20/17 16:17	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		70	373171	10/25/17 08:47	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-10

Lab Sample ID: 400-144630-7

Date Collected: 10/13/17 11:24

Matrix: Water

Date Received: 10/14/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 11:22	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		30	373030	10/24/17 09:37	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/13/17 11:24	BWS	TAL PEN

Client Sample ID: MW-11

Lab Sample ID: 400-144630-8

Date Collected: 10/13/17 12:12

Matrix: Water

Date Received: 10/14/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	25	372837	10/20/17 16:22	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		40	373171	10/25/17 08:47	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 11:23	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	373030	10/24/17 09:17	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/13/17 12:12	BWS	TAL PEN

Client Sample ID: MW-12

Lab Sample ID: 400-144630-9

Date Collected: 10/12/17 13:49

Matrix: Water

Date Received: 10/14/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372837	10/20/17 15:23	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372501	10/19/17 10:57	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		5	373171	10/25/17 08:18	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 10:57	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	373030	10/24/17 07:52	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/12/17 13:49	BWS	TAL PEN

Client Sample ID: MW-13

Lab Sample ID: 400-144630-10

Date Collected: 10/13/17 07:39

Matrix: Water

Date Received: 10/14/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	200	372837	10/20/17 16:26	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	373171	10/25/17 09:24	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 11:26	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	373030	10/24/17 09:17	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: MW-13

Lab Sample ID: 400-144630-10

Date Collected: 10/13/17 07:39

Matrix: Water

Date Received: 10/14/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	373089	10/13/17 07:39	BWS	TAL PEN

Client Sample ID: MW-14

Lab Sample ID: 400-144630-11

Date Collected: 10/13/17 09:38

Matrix: Water

Date Received: 10/14/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	100	372837	10/20/17 16:31	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		50	373171	10/25/17 08:21	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 11:29	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	373030	10/24/17 08:52	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	373089	10/13/17 09:38	BWS	TAL PEN

Client Sample ID: DUP-01

Lab Sample ID: 400-144630-12

Date Collected: 10/12/17 08:32

Matrix: Water

Date Received: 10/14/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372837	10/20/17 15:32	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372501	10/19/17 10:57	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	373171	10/25/17 07:28	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 10:59	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	373030	10/24/17 07:52	RRC	TAL PEN

Client Sample ID: EB-01

Lab Sample ID: 400-144630-13

Date Collected: 10/13/17 10:45

Matrix: Water

Date Received: 10/14/17 08:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372837	10/20/17 15:05	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 CI- E		1	373171	10/25/17 07:48	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374068	10/31/17 11:31	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	373030	10/24/17 08:11	RRC	TAL PEN

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: FB-01
Date Collected: 10/13/17 09:20
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372837	10/20/17 15:10	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	373171	10/25/17 07:48	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374086	10/31/17 12:04	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	373030	10/24/17 08:11	RRC	TAL PEN

Client Sample ID: DUP-02
Date Collected: 10/13/17 07:40
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020	DL	100	372837	10/20/17 14:38	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		70	373171	10/25/17 08:48	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374086	10/31/17 12:08	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	373030	10/24/17 09:17	RRC	TAL PEN

Client Sample ID: EB-02
Date Collected: 10/13/17 12:25
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372837	10/20/17 15:14	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	373171	10/25/17 07:49	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374086	10/31/17 12:10	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	373030	10/24/17 08:13	RRC	TAL PEN

Client Sample ID: FB-02
Date Collected: 10/13/17 11:15
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			372362	10/18/17 13:58	DN1	TAL PEN
Total Recoverable	Analysis	6020		5	372837	10/20/17 15:19	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	372647	10/20/17 13:18	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	373171	10/25/17 07:49	RRC	TAL PEN
Total/NA	Analysis	SM 4500 F C		1	374086	10/31/17 12:12	RRC	TAL PEN

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Client Sample ID: FB-02
Date Collected: 10/13/17 11:15
Date Received: 10/14/17 08:48

Lab Sample ID: 400-144630-17
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	373030	10/24/17 08:13	RRC	TAL PEN

Laboratory References:

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

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QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Metals

Prep Batch: 372362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-1	MW-02	Total Recoverable	Water	3005A	
400-144630-2	MW-03	Total Recoverable	Water	3005A	
400-144630-3 - DL	MW-06	Total Recoverable	Water	3005A	
400-144630-4 - DL	MW-07	Total Recoverable	Water	3005A	
400-144630-5 - DL	MW-08	Total Recoverable	Water	3005A	
400-144630-6 - DL	MW-09	Total Recoverable	Water	3005A	
400-144630-7 - DL	MW-10	Total Recoverable	Water	3005A	
400-144630-8 - DL	MW-11	Total Recoverable	Water	3005A	
400-144630-9	MW-12	Total Recoverable	Water	3005A	
400-144630-10 - DL	MW-13	Total Recoverable	Water	3005A	
400-144630-11 - DL	MW-14	Total Recoverable	Water	3005A	
400-144630-12	DUP-01	Total Recoverable	Water	3005A	
400-144630-13	EB-01	Total Recoverable	Water	3005A	
400-144630-14	FB-01	Total Recoverable	Water	3005A	
400-144630-15 - DL	DUP-02	Total Recoverable	Water	3005A	
400-144630-16	EB-02	Total Recoverable	Water	3005A	
400-144630-17	FB-02	Total Recoverable	Water	3005A	
MB 400-372362/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-372362/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
400-144630-1 MS	MW-02	Total Recoverable	Water	3005A	
400-144630-1 MSD	MW-02	Total Recoverable	Water	3005A	

Analysis Batch: 372837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-1	MW-02	Total Recoverable	Water	6020	372362
400-144630-2	MW-03	Total Recoverable	Water	6020	372362
400-144630-3 - DL	MW-06	Total Recoverable	Water	6020	372362
400-144630-4 - DL	MW-07	Total Recoverable	Water	6020	372362
400-144630-5 - DL	MW-08	Total Recoverable	Water	6020	372362
400-144630-6 - DL	MW-09	Total Recoverable	Water	6020	372362
400-144630-7 - DL	MW-10	Total Recoverable	Water	6020	372362
400-144630-8 - DL	MW-11	Total Recoverable	Water	6020	372362
400-144630-9	MW-12	Total Recoverable	Water	6020	372362
400-144630-10 - DL	MW-13	Total Recoverable	Water	6020	372362
400-144630-11 - DL	MW-14	Total Recoverable	Water	6020	372362
400-144630-12	DUP-01	Total Recoverable	Water	6020	372362
400-144630-13	EB-01	Total Recoverable	Water	6020	372362
400-144630-14	FB-01	Total Recoverable	Water	6020	372362
400-144630-15 - DL	DUP-02	Total Recoverable	Water	6020	372362
400-144630-16	EB-02	Total Recoverable	Water	6020	372362
400-144630-17	FB-02	Total Recoverable	Water	6020	372362
MB 400-372362/1-A ^5	Method Blank	Total Recoverable	Water	6020	372362
LCS 400-372362/2-A	Lab Control Sample	Total Recoverable	Water	6020	372362
400-144630-1 MS	MW-02	Total Recoverable	Water	6020	372362
400-144630-1 MSD	MW-02	Total Recoverable	Water	6020	372362

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

General Chemistry

Analysis Batch: 372501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-5	MW-08	Total/NA	Water	SM 2540C	
400-144630-9	MW-12	Total/NA	Water	SM 2540C	
400-144630-12	DUP-01	Total/NA	Water	SM 2540C	
MB 400-372501/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-372501/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144630-9 DU	MW-12	Total/NA	Water	SM 2540C	

Analysis Batch: 372516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-1	MW-02	Total/NA	Water	SM 2540C	
400-144630-2	MW-03	Total/NA	Water	SM 2540C	
400-144630-3	MW-06	Total/NA	Water	SM 2540C	
400-144630-4	MW-07	Total/NA	Water	SM 2540C	
MB 400-372516/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-372516/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144551-A-30 DU	Duplicate	Total/NA	Water	SM 2540C	
400-144556-A-19 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 372647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-6	MW-09	Total/NA	Water	SM 2540C	
400-144630-7	MW-10	Total/NA	Water	SM 2540C	
400-144630-8	MW-11	Total/NA	Water	SM 2540C	
400-144630-10	MW-13	Total/NA	Water	SM 2540C	
400-144630-11	MW-14	Total/NA	Water	SM 2540C	
400-144630-13	EB-01	Total/NA	Water	SM 2540C	
400-144630-14	FB-01	Total/NA	Water	SM 2540C	
400-144630-15	DUP-02	Total/NA	Water	SM 2540C	
400-144630-16	EB-02	Total/NA	Water	SM 2540C	
400-144630-17	FB-02	Total/NA	Water	SM 2540C	
MB 400-372647/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-372647/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-144649-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	
400-144649-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 373030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-1	MW-02	Total/NA	Water	SM 4500 SO4 E	
400-144630-2	MW-03	Total/NA	Water	SM 4500 SO4 E	
400-144630-3	MW-06	Total/NA	Water	SM 4500 SO4 E	
400-144630-4	MW-07	Total/NA	Water	SM 4500 SO4 E	
400-144630-5	MW-08	Total/NA	Water	SM 4500 SO4 E	
400-144630-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
400-144630-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-144630-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
400-144630-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
400-144630-10	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-144630-11	MW-14	Total/NA	Water	SM 4500 SO4 E	
400-144630-12	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-144630-13	EB-01	Total/NA	Water	SM 4500 SO4 E	
400-144630-14	FB-01	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

General Chemistry (Continued)

Analysis Batch: 373030 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-15	DUP-02	Total/NA	Water	SM 4500 SO4 E	
400-144630-16	EB-02	Total/NA	Water	SM 4500 SO4 E	
400-144630-17	FB-02	Total/NA	Water	SM 4500 SO4 E	
MB 400-373030/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-373030/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-373030/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-144630-1 MS	MW-02	Total/NA	Water	SM 4500 SO4 E	
400-144630-1 MSD	MW-02	Total/NA	Water	SM 4500 SO4 E	
400-144630-2 MS	MW-03	Total/NA	Water	SM 4500 SO4 E	
400-144630-2 MSD	MW-03	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 373171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-1	MW-02	Total/NA	Water	SM 4500 Cl- E	
400-144630-2	MW-03	Total/NA	Water	SM 4500 Cl- E	
400-144630-3	MW-06	Total/NA	Water	SM 4500 Cl- E	
400-144630-4	MW-07	Total/NA	Water	SM 4500 Cl- E	
400-144630-5	MW-08	Total/NA	Water	SM 4500 Cl- E	
400-144630-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
400-144630-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-144630-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
400-144630-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
400-144630-10	MW-13	Total/NA	Water	SM 4500 Cl- E	
400-144630-11	MW-14	Total/NA	Water	SM 4500 Cl- E	
400-144630-12	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-144630-13	EB-01	Total/NA	Water	SM 4500 Cl- E	
400-144630-14	FB-01	Total/NA	Water	SM 4500 Cl- E	
400-144630-15	DUP-02	Total/NA	Water	SM 4500 Cl- E	
400-144630-16	EB-02	Total/NA	Water	SM 4500 Cl- E	
400-144630-17	FB-02	Total/NA	Water	SM 4500 Cl- E	
MB 400-373171/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-373171/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-373171/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-144630-1 MS	MW-02	Total/NA	Water	SM 4500 Cl- E	
400-144630-1 MSD	MW-02	Total/NA	Water	SM 4500 Cl- E	
400-144630-2 MS	MW-03	Total/NA	Water	SM 4500 Cl- E	
400-144630-2 MSD	MW-03	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 374068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-1	MW-02	Total/NA	Water	SM 4500 F C	
400-144630-2	MW-03	Total/NA	Water	SM 4500 F C	
400-144630-3	MW-06	Total/NA	Water	SM 4500 F C	
400-144630-4	MW-07	Total/NA	Water	SM 4500 F C	
400-144630-5	MW-08	Total/NA	Water	SM 4500 F C	
400-144630-6	MW-09	Total/NA	Water	SM 4500 F C	
400-144630-7	MW-10	Total/NA	Water	SM 4500 F C	
400-144630-8	MW-11	Total/NA	Water	SM 4500 F C	
400-144630-9	MW-12	Total/NA	Water	SM 4500 F C	
400-144630-10	MW-13	Total/NA	Water	SM 4500 F C	
400-144630-11	MW-14	Total/NA	Water	SM 4500 F C	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

General Chemistry (Continued)

Analysis Batch: 374068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-12	DUP-01	Total/NA	Water	SM 4500 F C	
400-144630-13	EB-01	Total/NA	Water	SM 4500 F C	
MB 400-374068/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-374068/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
660-83312-C-8 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
660-83312-C-8 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
660-83395-C-3 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Analysis Batch: 374086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-14	FB-01	Total/NA	Water	SM 4500 F C	
400-144630-15	DUP-02	Total/NA	Water	SM 4500 F C	
400-144630-16	EB-02	Total/NA	Water	SM 4500 F C	
400-144630-17	FB-02	Total/NA	Water	SM 4500 F C	
MB 400-374086/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-374086/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
400-144729-A-3 MS	Matrix Spike	Total/NA	Water	SM 4500 F C	
400-144729-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 F C	
400-144729-A-25 DU	Duplicate	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 373089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-144630-1	MW-02	Total/NA	Water	Field Sampling	
400-144630-2	MW-03	Total/NA	Water	Field Sampling	
400-144630-3	MW-06	Total/NA	Water	Field Sampling	
400-144630-4	MW-07	Total/NA	Water	Field Sampling	
400-144630-5	MW-08	Total/NA	Water	Field Sampling	
400-144630-6	MW-09	Total/NA	Water	Field Sampling	
400-144630-7	MW-10	Total/NA	Water	Field Sampling	
400-144630-8	MW-11	Total/NA	Water	Field Sampling	
400-144630-9	MW-12	Total/NA	Water	Field Sampling	
400-144630-10	MW-13	Total/NA	Water	Field Sampling	
400-144630-11	MW-14	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-372362/1-A ^5
Matrix: Water
Analysis Batch: 372837

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 372362

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		10/18/17 13:58	10/20/17 13:58	5
Calcium	0.13	U	0.25	0.13	mg/L		10/18/17 13:58	10/20/17 13:58	5

Lab Sample ID: LCS 400-372362/2-A
Matrix: Water
Analysis Batch: 372837

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 372362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.100	0.100		mg/L		100	80 - 120
Calcium	5.00	5.08		mg/L		102	80 - 120

Lab Sample ID: 400-144630-1 MS
Matrix: Water
Analysis Batch: 372837

Client Sample ID: MW-02
Prep Type: Total Recoverable
Prep Batch: 372362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.021	U	0.100	0.121		mg/L		121	75 - 125
Calcium	45		5.00	49.7		mg/L		99	75 - 125

Lab Sample ID: 400-144630-1 MSD
Matrix: Water
Analysis Batch: 372837

Client Sample ID: MW-02
Prep Type: Total Recoverable
Prep Batch: 372362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.021	U	0.100	0.121		mg/L		121	75 - 125	0	20
Calcium	45		5.00	50.7		mg/L		118	75 - 125	2	20

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

Lab Sample ID: MB 400-372501/1
Matrix: Water
Analysis Batch: 372501

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			10/19/17 10:57	1

Lab Sample ID: LCS 400-372501/2
Matrix: Water
Analysis Batch: 372501

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: 400-144630-9 DU
Matrix: Water
Analysis Batch: 372501

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	470		472		mg/L		0.4	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

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

Lab Sample ID: MB 400-372516/1
Matrix: Water
Analysis Batch: 372516

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L	-		10/19/17 16:01	1

Lab Sample ID: LCS 400-372516/2
Matrix: Water
Analysis Batch: 372516

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	276		mg/L	-	94	78 - 122

Lab Sample ID: 400-144551-A-30 DU
Matrix: Water
Analysis Batch: 372516

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	400		396		mg/L	-	0	5

Lab Sample ID: 400-144556-A-19 DU
Matrix: Water
Analysis Batch: 372516

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	38		38.0		mg/L	-	0	5

Lab Sample ID: MB 400-372647/1
Matrix: Water
Analysis Batch: 372647

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L	-		10/20/17 13:18	1

Lab Sample ID: LCS 400-372647/2
Matrix: Water
Analysis Batch: 372647

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	272		mg/L	-	93	78 - 122

Lab Sample ID: 400-144649-A-2 DU
Matrix: Water
Analysis Batch: 372647

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	530		524		mg/L	-	0.4	5

Lab Sample ID: 400-144649-A-3 DU
Matrix: Water
Analysis Batch: 372647

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	150		146		mg/L	-	1	5

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-373171/6
Matrix: Water
Analysis Batch: 373171

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			10/25/17 07:13	1

Lab Sample ID: LCS 400-373171/7
Matrix: Water
Analysis Batch: 373171

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	31.9		mg/L		106	90 - 110

Lab Sample ID: MRL 400-373171/3
Matrix: Water
Analysis Batch: 373171

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	2.81		mg/L		140	50 - 150

Lab Sample ID: 400-144630-1 MS
Matrix: Water
Analysis Batch: 373171

Client Sample ID: MW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12		10.0	27.7	J3	mg/L		157	73 - 120

Lab Sample ID: 400-144630-1 MSD
Matrix: Water
Analysis Batch: 373171

Client Sample ID: MW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12		10.0	22.9	J3	mg/L		109	73 - 120	19	8

Lab Sample ID: 400-144630-2 MS
Matrix: Water
Analysis Batch: 373171

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12		10.0	22.3		mg/L		105	73 - 120

Lab Sample ID: 400-144630-2 MSD
Matrix: Water
Analysis Batch: 373171

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	12		10.0	22.3		mg/L		106	73 - 120	0	8

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-374068/3
Matrix: Water
Analysis Batch: 374068

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 10:33	1

Lab Sample ID: LCS 400-374068/4
Matrix: Water
Analysis Batch: 374068

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: 660-83312-C-8 MS
Matrix: Water
Analysis Batch: 374068

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	0.42		1.00	1.08	J3	mg/L		66	75 - 125

Lab Sample ID: 660-83312-C-8 MSD
Matrix: Water
Analysis Batch: 374068

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	0.42		1.00	1.08	J3	mg/L		66	75 - 125	0	4

Lab Sample ID: 660-83395-C-3 DU
Matrix: Water
Analysis Batch: 374068

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.17		0.160	J3	mg/L		6	4

Lab Sample ID: MB 400-374086/3
Matrix: Water
Analysis Batch: 374086

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.032	U	0.10	0.032	mg/L			10/31/17 11:49	1

Lab Sample ID: LCS 400-374086/4
Matrix: Water
Analysis Batch: 374086

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	3.82		mg/L		96	90 - 110

Lab Sample ID: 400-144729-A-3 MS
Matrix: Water
Analysis Batch: 374086

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	0.37		1.00	1.36		mg/L		99	75 - 125

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
SDG: App III

Lab Sample ID: 400-144729-A-3 MSD
Matrix: Water
Analysis Batch: 374086

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	0.37		1.00	1.33		mg/L		96	75 - 125	2	4

Lab Sample ID: 400-144729-A-25 DU
Matrix: Water
Analysis Batch: 374086

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 400-373030/6
Matrix: Water
Analysis Batch: 373030

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			10/24/17 07:22	1

Lab Sample ID: LCS 400-373030/7
Matrix: Water
Analysis Batch: 373030

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	14.1		mg/L		94	90 - 110

Lab Sample ID: MRL 400-373030/3
Matrix: Water
Analysis Batch: 373030

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	3.62	I	mg/L		72	50 - 150

Lab Sample ID: 400-144630-1 MS
Matrix: Water
Analysis Batch: 373030

Client Sample ID: MW-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.4	U	10.0	8.66		mg/L		87	77 - 128

Lab Sample ID: 400-144630-1 MSD
Matrix: Water
Analysis Batch: 373030

Client Sample ID: MW-02
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	U	10.0	8.40		mg/L		84	77 - 128	3	5

QC Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: App III

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

Lab Sample ID: 400-144630-2 MS
Matrix: Water
Analysis Batch: 373030

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	1.4	U	10.0	9.78		mg/L		98	77 - 128

Lab Sample ID: 400-144630-2 MSD
Matrix: Water
Analysis Batch: 373030

Client Sample ID: MW-03
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	U	10.0	9.80		mg/L		98	77 - 128	0	5

- 1
- 2
- 3
- 4
- 5
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Chain of Custody Record

Client Information		Sampler: <u>Brett Sales</u>		Lab PM: <u>Whitmore, Cheyenne R</u>		Carrier Tracking No(s): <u>400-68498-27809.1</u>	
Client Contact: <u>Kristi Mitchell</u>		Phone: <u>850 380 3458</u>		E-Mail: <u>cheyenne.whitmore@testamericainc.com</u>		Page: <u>Page 1 of 2</u>	
Company: <u>Gulf Power Company</u>		Due Date Requested:		Analysis Requested		Job #:	
Address: <u>BIN 731 One Energy Place</u>		TAT Requested (days):		Field Filtered Sample (Yes or No)		Field Filtered Sample (Yes or No)	
City: <u>Pensacola</u>		PO #: <u>Purchase Order not required</u>		Perform MS/MSD (Yes or No)		Perform MS/MSD (Yes or No)	
State, Zip: <u>FL, 32520</u>		WO #:		6020 - Boron & Calcium		6020 - Boron & Calcium	
Phone: <u>850-444-6427(Tel)</u>		Project #:		Field Sampling - Field pH		Field Sampling - Field pH	
Email: <u>krmitch@southernco.com</u>		40006609		SM4500 Cl ⁻ , E - Chloride, SM4500 SO ₄ ²⁻ , E - Sulfate, 4500 F ₂ C		SM4500 Cl ⁻ , E - Chloride, SM4500 SO ₄ ²⁻ , E - Sulfate, 4500 F ₂ C	
Project Name: <u>CCR Smith Plant App III</u>		SSOW#:		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)		Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	
Site: <u>Florida</u>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
MW-02		10/12/17	0932	G		Water	
MW-03		10/12/17	1156	G		Water	
MW-06		10/12/17	1623	G		Water	
MW-07		10/12/17	1506	G		Water	
MW-08		10/13/17	0840	G		Water	
MW-09		10/13/17	1036	G		Water	
MW-10		10/13/17	1124	G		Water	
MW-11		10/13/17	1212	G		Water	
MW-12		10/12/17	1349	G		Water	
MW-13		10/13/17	0739	G		Water	
MW-14		10/13/17	0938	G		Water	
Possible Hazard Identification		Date:		Time:		Special Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<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		Date: <u>10/14/17</u>		Time: <u>0848</u>		<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)		Relinquished by: <u>[Signature]</u>		Relinquished by: <u>[Signature]</u>		Relinquished by: <u>[Signature]</u>	
Empty Kit Relinquished by:		Date: <u>10/14/17</u>		Time: <u>0848</u>		Company: <u>[Signature]</u>	
Relinquished by:		Date: <u>10/14/17</u>		Time: <u>0848</u>		Company: <u>[Signature]</u>	
Relinquished by:		Date: <u>10/14/17</u>		Time: <u>0848</u>		Company: <u>[Signature]</u>	
Custody Seals Intact: <u>Yes</u> <input type="checkbox"/> No <input type="checkbox"/>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>30.0, 0.9, 16.7</u>		Special Instructions/QC Requirements:	



Chain of Custody Record

Client Information Client Contact: Kristi Mitchell Company: Gulf Power Company Address: BIN 731 One Energy Place City: Pensacola State, Zip: FL, 32520 Phone: 850-444-6427(Tel) Email: krmitch@southernco.com Project Name: CCR Smith Plant App III Site: Florida		Lab PM: Whitmire, Cheyenne R. E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): Lab No: 400-68498-27809.2 Page: Page 2 of 2 Job #:																	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 40006609 SSOW#:		Analysis Requested Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> SM4500 Cl ⁻ Chloride, SM4500 SO ₄ ²⁻ Sulfate, 4500 F ⁻ Fluoride, 2540C - Total Dissolved Solids 6020 - Boron & Calcium Field Sampling - Field pH																	
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, B=refuse, A=air) Preservation Code:		Special Instructions/Note: Total Number of containers																	
DUP-01	10/12/17	0832	C	Water	X														
EB-01	10/13/17	1045		Water	X														
FB-01	10/13/17	0928		Water	X														
DUP-02	10/13/17	0740		Water	X														
EB-02	10/13/17	1225		Water	X														
FB-02	10/13/17	1115	G	Water	X														
				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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [Signature] Date: 10/14/17
 Relinquished by: [Signature] Date: 10/14/17
 Relinquished by: [Signature] Date: 10/14/17

Custody Seal No.: Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-144630-1

SDG Number: App III

Login Number: 144630

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	3.0°C, 0.9°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: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-144630-1
 SDG: 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



FIELD SAMPLING REPORTS

VERIFICATION EVENT

Product Name: Low-Flow System

Date: 2017-12-26 10:54:23

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith CCR
Site Name Smith Plant CCR
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-06
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 12.50 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 27 in
Total Volume Pumped 26 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	10:32:23	2700.02	20.39	5.34	10735.45	1.37	14.81	0.11	-157.83
Last 5	10:37:23	3000.02	20.31	5.31	10835.26	1.56	14.81	0.11	-156.68
Last 5	10:42:23	3300.02	20.69	5.29	10972.06	1.73	14.81	0.11	-156.83
Last 5	10:47:23	3600.02	20.61	5.28	10975.21	1.93	14.81	0.11	-154.30
Last 5	10:52:23	3900.02	20.61	5.26	11067.34	1.78	14.81	0.11	-153.10
Variance 0			0.38	-0.02	136.80			0.00	-0.15
Variance 1			-0.09	-0.01	3.15			-0.00	2.53
Variance 2			0.01	-0.02	92.13			0.00	1.20

Notes

Sample@1053, Sunny 49

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-26 09:22:23

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith CCR
Site Name Smith Plant CCR
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 42 ft

Pump placement from TOC 35 ft

Well Information:

Well ID MW-07
Well diameter 2 in
Well Total Depth 40 ft
Screen Length 10 ft
Depth to Water 12.38 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2774638 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13 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%	+/- 10		+/- 0.2	+/- 10
Last 5	08:59:46	3000.02	22.10	6.24	6091.74	2.87	13.46	0.14	-255.00
Last 5	09:04:46	3300.01	22.41	6.25	6091.15	2.64	13.46	0.14	-255.63
Last 5	09:09:46	3600.02	22.08	6.26	6131.42	2.55	13.46	0.12	-255.19
Last 5	09:14:46	3900.02	22.26	6.25	6142.55	2.34	13.46	0.12	-254.34
Last 5	09:19:46	4200.02	22.26	6.26	6135.11	2.21	13.46	0.12	-254.31
Variance 0			-0.33	0.01	40.28			-0.02	0.44
Variance 1			0.18	-0.01	11.12			0.00	0.85
Variance 2			-0.00	0.01	-7.44			-0.00	0.03

Notes

Sample@0921, DUP-01@0821 Sunny 41

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-26 13:25:52

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith CCR
Site Name Smith Plant CCR
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-08
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 16.85 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 26 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	13:03:59	2100.02	19.58	4.36	12851.39	1.85	19.05	0.24	-121.63
Last 5	13:08:59	2400.03	19.76	4.41	12838.01	1.72	19.05	0.23	-124.62
Last 5	13:13:59	2700.02	19.96	4.45	12836.83	1.42	19.05	0.23	-126.46
Last 5	13:18:59	3000.02	19.88	4.51	12845.08	1.67	19.05	0.23	-129.04
Last 5	13:23:59	3300.02	19.85	4.52	12844.50	1.71	19.05	0.23	-128.28
Variance 0			0.20	0.04	-1.17			-0.01	-1.84
Variance 1			-0.08	0.06	8.24			-0.00	-2.58
Variance 2			-0.03	0.01	-0.58			0.00	0.76

Notes

Sample@1324, EQ Blank -01@1330 Sunny 59

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-26 16:08:21

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith CCR
Site Name Smith Plant CCR
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-09
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 11.87 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.67 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	15:46:49	2102.03	21.68	6.45	9141.17	7.23	12.54	0.14	-218.64
Last 5	15:51:49	2402.03	21.68	6.44	9152.94	5.97	12.54	0.14	-219.61
Last 5	15:56:49	2702.02	21.54	6.43	9144.33	4.31	12.54	0.13	-219.16
Last 5	16:01:49	3002.03	21.58	6.43	9143.64	3.45	12.54	0.13	-220.07
Last 5	16:06:49	3302.02	21.52	6.41	9163.05	2.43	12.54	0.13	-219.73
Variance 0			-0.13	-0.01	-8.61			-0.01	0.45
Variance 1			0.04	-0.01	-0.69			-0.00	-0.91
Variance 2			-0.06	-0.01	19.41			-0.00	0.34

Notes

Sample@1607, Sunny 62

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-26 17:40:52

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith CCR
Site Name Smith Plant CCR
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-10
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 7.26 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.52 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%	+/- 10		+/- 0.2	+/- 10
Last 5	17:19:36	3000.03	20.37	5.17	10878.21	13.80	7.77	0.21	-165.75
Last 5	17:24:36	3300.02	20.32	5.16	10868.63	10.10	7.77	0.21	-164.57
Last 5	17:29:36	3600.02	20.25	5.17	10863.91	5.43	7.77	0.20	-164.33
Last 5	17:34:36	3900.02	20.12	5.15	10888.36	3.49	7.77	0.19	-162.81
Last 5	17:39:36	4200.03	20.24	5.14	10855.71	2.27	7.77	0.18	-162.26
Variance 0			-0.07	0.01	-4.72			-0.01	0.24
Variance 1			-0.13	-0.02	24.45			-0.01	1.52
Variance 2			0.12	-0.01	-32.65			-0.01	0.55

Notes

Sample@1740, FB-01@1630, Clear 53

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-27 06:50:43

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith CCR
Site Name Smith Plant CCR
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 35 ft

Pump placement from TOC 28 ft

Well Information:

Well ID MW-11
Well diameter 2 in
Well Total Depth 33 ft
Screen Length 10 ft
Depth to Water 10.54 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15 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	06:28:41	2400.03	18.16	6.64	5307.16	2.11	11.91	0.20	-245.28
Last 5	06:33:41	2700.03	18.19	6.61	5196.95	1.93	11.91	0.20	-243.86
Last 5	06:38:41	3000.02	17.98	6.59	5522.63	1.88	11.91	0.21	-241.79
Last 5	06:43:41	3300.02	18.11	6.58	5334.30	1.65	11.91	0.18	-241.07
Last 5	06:48:41	3600.03	17.94	6.56	5371.27	1.82	11.91	0.18	-239.42
Variance 0			-0.20	-0.03	325.68			0.01	2.07
Variance 1			0.13	-0.01	-188.33			-0.03	0.72
Variance 2			-0.17	-0.02	36.97			-0.00	1.65

Notes

Sample@0649, cloudy 52

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-26 12:03:40

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith CCR
Site Name Smith Plant CCR
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 45 ft

Pump placement from TOC 38 ft

Well Information:

Well ID MW-13
Well diameter 2 in
Well Total Depth 43 ft
Screen Length 10 ft
Depth to Water 15.56 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.290854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 36 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	11:41:48	1200.02	20.76	7.10	16308.17	0.64	18.51	0.09	-278.38
Last 5	11:46:49	1501.02	20.92	7.15	16513.69	0.66	18.55	0.09	-306.01
Last 5	11:51:49	1801.03	20.69	7.13	16667.68	0.28	18.58	0.10	-307.78
Last 5	11:56:49	2101.02	20.70	7.09	16987.02	0.36	18.60	0.11	-309.82
Last 5	12:01:49	2401.02	20.83	7.08	16915.15	0.57	18.61	0.11	-309.81
Variance 0			-0.23	-0.03	153.99			0.01	-1.76
Variance 1			0.00	-0.04	319.34			0.00	-2.04
Variance 2			0.13	-0.01	-71.88			-0.00	0.01

Notes

Sample@1202, Sunny 55

Grab Samples

Product Name: Low-Flow System

Date: 2017-12-26 14:44:56

Project Information:

Operator Name Brett Surles
Company Name RDH
Project Name Smith CCR
Site Name Smith Plant CCR
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 43 ft

Pump placement from TOC 36 ft

Well Information:

Well ID MW-14
Well diameter 2 in
Well Total Depth 41 ft
Screen Length 10 ft
Depth to Water 22.84 ft

Pumping Information:

Final Pumping Rate 400 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.58 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%	+/- 10		+/- 0.2	+/- 10
Last 5	14:22:41	900.02	20.69	7.10	9916.69	6.13	23.35	5.44	-234.86
Last 5	14:27:41	1200.02	21.22	6.85	9279.73	3.25	23.40	0.27	-270.27
Last 5	14:32:41	1500.02	21.61	6.84	9276.89	4.37	23.42	0.19	-272.65
Last 5	14:37:41	1800.02	21.72	6.84	9265.72	3.51	23.42	0.16	-273.83
Last 5	14:42:41	2100.02	21.65	6.85	9254.22	2.31	23.42	0.14	-274.17
Variance 0			0.40	-0.00	-2.84			-0.08	-2.38
Variance 1			0.11	0.00	-11.17			-0.03	-1.18
Variance 2			-0.08	0.01	-11.50			-0.02	-0.33

Notes

Sample@1443, Sunny 62

Grab Samples

**LABORATORY ANALYTICAL
VERIFICATION EVENT**

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: 400-147821-1

Client Project/Site: CCR Smith Plant

Sampling Event: CCR Smith Plant

For:

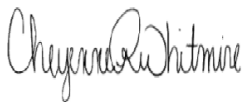
Gulf Power Company

BIN 731

One Energy Place

Pensacola, Florida 32520

Attn: Kristi Mitchell



Authorized for release by:

1/12/2018 5:22:47 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Job ID: 400-147821-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative 400-147821-1

Metals

Method(s) 6020: Due to the high concentration of Boron and Calcium, the matrix spike (MS) for preparation batch 381316 and analytical batch 381422 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method(s) 6020: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06 (400-147821-3), MW-07 (400-147821-4), MW-08 (400-147821-5), MW-09 (400-147821-6), MW-10 (400-147821-7), MW-11 (400-147821-8), MW-13 (400-147821-10), MW-14 (400-147821-11), DUP-01 (400-147821-12), (400-147821-B-11-B MS) and (400-147821-B-11-C MS). Elevated reporting limits (RLs) are provided.

General Chemistry

Method(s) SM 4500 Cl- E: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06 (400-147821-3), MW-07 (400-147821-4), MW-08 (400-147821-5), MW-09 (400-147821-6), MW-10 (400-147821-7), MW-11 (400-147821-8), MW-13 (400-147821-10), MW-14 (400-147821-11) and DUP-01 (400-147821-12). Elevated reporting limits (RLs) are provided.

Method(s) SM 4500 SO4 E: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 381759 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of sulfates in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method(s) SM 4500 SO4 E: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-06 (400-147821-3), MW-07 (400-147821-4), MW-08 (400-147821-5), MW-09 (400-147821-6), MW-10 (400-147821-7), MW-11 (400-147821-8), MW-13 (400-147821-10), MW-14 (400-147821-11) and DUP-01 (400-147821-12). Elevated reporting limits (RLs) are provided.

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-06

Lab Sample ID: 400-147821-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	8.0		1.0	0.42	mg/L	100		6020	Total
Calcium - DL	290		5.0	2.5	mg/L	100		6020	Recoverable Total
Total Dissolved Solids	6200		25	17	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	2900		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Sulfate	510		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	5.26				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-07

Lab Sample ID: 400-147821-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	2.8		0.25	0.11	mg/L	25		6020	Total
Calcium - DL	190		1.3	0.63	mg/L	25		6020	Recoverable Total
Total Dissolved Solids	3200		25	17	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	1300		80	24	mg/L	40		SM 4500 Cl- E	Total/NA
Sulfate	660		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	6.26				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 400-147821-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	13		1.0	0.42	mg/L	100		6020	Total
Calcium - DL	530		5.0	2.5	mg/L	100		6020	Recoverable Total
Total Dissolved Solids	6900		25	17	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	3300		160	48	mg/L	80		SM 4500 Cl- E	Total/NA
Sulfate	880		200	56	mg/L	40		SM 4500 SO4 E	Total/NA
Field pH	4.52				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-09

Lab Sample ID: 400-147821-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	9.0		1.0	0.42	mg/L	100		6020	Total
Calcium - DL	310		5.0	2.5	mg/L	100		6020	Recoverable Total
Total Dissolved Solids	5000		25	17	mg/L	1		SM 2540C	Recoverable Total/NA
Chloride	2300		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Sulfate	610		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	6.41				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 400-147821-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	9.9		1.0	0.42	mg/L	100		6020	Total
Calcium - DL	510		5.0	2.5	mg/L	100		6020	Recoverable Total
Total Dissolved Solids	6600		25	17	mg/L	1		SM 2540C	Recoverable Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-10 (Continued)

Lab Sample ID: 400-147821-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2600		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Sulfate	780		200	56	mg/L	40		SM 4500 SO4 E	Total/NA
Field pH	5.14				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 400-147821-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	3.6		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	82		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3300		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	1600		80	24	mg/L	40		SM 4500 Cl- E	Total/NA
Sulfate	220		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Field pH	6.56				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 400-147821-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	16		2.0	0.84	mg/L	200		6020	Total Recoverable
Calcium - DL	760		10	5.0	mg/L	200		6020	Total Recoverable
Total Dissolved Solids	8900		50	34	mg/L	1		SM 2540C	Total/NA
Chloride	4100		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	950		200	56	mg/L	40		SM 4500 SO4 E	Total/NA
Field pH	7.08				SU	1		Field Sampling	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 400-147821-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	12		1.0	0.42	mg/L	100		6020	Total Recoverable
Calcium - DL	280		5.0	2.5	mg/L	100		6020	Total Recoverable
Total Dissolved Solids	5200		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	2300		120	36	mg/L	60		SM 4500 Cl- E	Total/NA
Sulfate	600		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Field pH	6.85				SU	1		Field Sampling	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 400-147821-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron - DL	2.9		0.25	0.11	mg/L	25		6020	Total Recoverable
Calcium - DL	190		1.3	0.63	mg/L	25		6020	Total Recoverable
Total Dissolved Solids	3400		25	17	mg/L	1		SM 2540C	Total/NA
Chloride	1300		80	24	mg/L	40		SM 4500 Cl- E	Total/NA
Sulfate	660		100	28	mg/L	20		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Detection Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: EB-BLANK-01

Lab Sample ID: 400-147821-13

No Detections.

Client Sample ID: FB-01

Lab Sample ID: 400-147821-14

No Detections.

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This Detection Summary does not include radiochemical test results.

TestAmerica Pensacola

Method Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

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 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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-147821-3	MW-06	Water	12/26/17 10:53	12/28/17 09:39
400-147821-4	MW-07	Water	12/26/17 09:21	12/28/17 09:39
400-147821-5	MW-08	Water	12/26/17 13:24	12/28/17 09:39
400-147821-6	MW-09	Water	12/26/17 16:07	12/28/17 09:39
400-147821-7	MW-10	Water	12/26/17 17:40	12/28/17 09:39
400-147821-8	MW-11	Water	12/27/17 06:49	12/28/17 09:39
400-147821-10	MW-13	Water	12/26/17 12:02	12/28/17 09:39
400-147821-11	MW-14	Water	12/26/17 14:43	12/28/17 09:39
400-147821-12	DUP-01	Water	12/26/17 08:21	12/28/17 09:39
400-147821-13	EB-BLANK-01	Water	12/26/17 13:30	12/28/17 09:39
400-147821-14	FB-01	Water	12/26/17 16:30	12/28/17 09:39



Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-06
Date Collected: 12/26/17 10:53
Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	8.0		1.0	0.42	mg/L		12/28/17 12:10	12/28/17 18:11	100
Calcium	290		5.0	2.5	mg/L		12/28/17 12:10	12/28/17 18:11	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6200		25	17	mg/L			12/28/17 14:07	1
Chloride	2900		120	36	mg/L			01/02/18 10:43	60
Sulfate	510		100	28	mg/L			01/03/18 09:34	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.26				SU			12/26/17 10:53	1



Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-07
Date Collected: 12/26/17 09:21
Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-4
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.8		0.25	0.11	mg/L		12/28/17 12:10	12/28/17 18:38	25
Calcium	190		1.3	0.63	mg/L		12/28/17 12:10	12/28/17 18:38	25

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3200		25	17	mg/L			12/28/17 14:07	1
Chloride	1300		80	24	mg/L			01/02/18 10:43	40
Sulfate	660		100	28	mg/L			01/03/18 09:34	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.26				SU			12/26/17 09:21	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-08
Date Collected: 12/26/17 13:24
Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-5
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13		1.0	0.42	mg/L		12/28/17 12:10	12/28/17 18:42	100
Calcium	530		5.0	2.5	mg/L		12/28/17 12:10	12/28/17 18:42	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6900		25	17	mg/L			12/28/17 14:07	1
Chloride	3300		160	48	mg/L			01/02/18 11:03	80
Sulfate	880		200	56	mg/L			01/03/18 09:57	40

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.52				SU			12/26/17 13:24	1

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Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-09
Date Collected: 12/26/17 16:07
Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-6
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.0		1.0	0.42	mg/L		12/28/17 12:10	12/28/17 18:47	100
Calcium	310		5.0	2.5	mg/L		12/28/17 12:10	12/28/17 18:47	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5000		25	17	mg/L			12/28/17 14:07	1
Chloride	2300		120	36	mg/L			01/02/18 10:43	60
Sulfate	610		100	28	mg/L			01/03/18 09:34	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.41				SU			12/26/17 16:07	1

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Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-10
Date Collected: 12/26/17 17:40
Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-7
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	9.9		1.0	0.42	mg/L		12/28/17 12:10	12/28/17 18:51	100
Calcium	510		5.0	2.5	mg/L		12/28/17 12:10	12/28/17 18:51	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	6600		25	17	mg/L			12/28/17 14:07	1
Chloride	2600		120	36	mg/L			01/02/18 10:46	60
Sulfate	780		200	56	mg/L			01/03/18 09:57	40

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.14				SU			12/26/17 17:40	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-11

Date Collected: 12/27/17 06:49

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-8

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3.6		0.25	0.11	mg/L		12/28/17 12:10	12/28/17 18:56	25
Calcium	82		1.3	0.63	mg/L		12/28/17 12:10	12/28/17 18:56	25

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3300		25	17	mg/L			12/28/17 14:07	1
Chloride	1600		80	24	mg/L			01/02/18 11:03	40
Sulfate	220		50	14	mg/L			01/03/18 10:11	10

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.56				SU			12/27/17 06:49	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-13
Date Collected: 12/26/17 12:02
Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-10
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	16		2.0	0.84	mg/L		12/28/17 12:10	12/28/17 19:00	200
Calcium	760		10	5.0	mg/L		12/28/17 12:10	12/28/17 19:00	200

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	8900		50	34	mg/L			12/28/17 14:07	1
Chloride	4100		200	60	mg/L			01/02/18 11:30	100
Sulfate	950		200	56	mg/L			01/03/18 09:38	40

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.08				SU			12/26/17 12:02	1

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Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-14
Date Collected: 12/26/17 14:43
Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-11
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		1.0	0.42	mg/L		12/28/17 12:10	12/28/17 19:05	100
Calcium	280		5.0	2.5	mg/L		12/28/17 12:10	12/28/17 19:05	100

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5200		25	17	mg/L			12/28/17 14:07	1
Chloride	2300		120	36	mg/L			01/02/18 10:46	60
Sulfate	600		100	28	mg/L			01/03/18 09:38	20

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.85				SU			12/26/17 14:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: DUP-01

Lab Sample ID: 400-147821-12

Date Collected: 12/26/17 08:21

Matrix: Water

Date Received: 12/28/17 09:39

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	2.9		0.25	0.11	mg/L		12/28/17 12:10	12/28/17 19:18	25
Calcium	190		1.3	0.63	mg/L		12/28/17 12:10	12/28/17 19:18	25

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3400		25	17	mg/L			12/28/17 14:07	1
Chloride	1300		80	24	mg/L			01/02/18 10:46	40
Sulfate	660		100	28	mg/L			01/03/18 09:57	20



Client Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: EB-BLANK-01

Lab Sample ID: 400-147821-13

Date Collected: 12/26/17 13:30

Matrix: Water

Date Received: 12/28/17 09:39

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		12/28/17 12:10	12/28/17 18:02	5
Calcium	0.13	U	0.25	0.13	mg/L		12/28/17 12:10	12/28/17 18:02	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			12/28/17 14:07	1
Chloride	0.60	U	2.0	0.60	mg/L			01/02/18 10:03	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/03/18 09:53	1



Client Sample Results

Client: Gulf Power Company
 Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: FB-01

Lab Sample ID: 400-147821-14

Date Collected: 12/26/17 16:30

Matrix: Water

Date Received: 12/28/17 09:39

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		12/28/17 12:11	12/28/17 18:06	5
Calcium	0.13	U	0.25	0.13	mg/L		12/28/17 12:11	12/28/17 18:06	5

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			12/28/17 14:07	1
Chloride	0.60	U	2.0	0.60	mg/L			01/02/18 10:18	1
Sulfate	1.4	U	5.0	1.4	mg/L			01/03/18 09:53	1

Definitions/Glossary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Qualifiers

Metals

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation 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	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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-06

Date Collected: 12/26/17 10:53

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	100	381422	12/28/17 18:11	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		60	381674	01/02/18 10:43	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	381759	01/03/18 09:34	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	382706	12/26/17 10:53	BWS	TAL PEN

Client Sample ID: MW-07

Date Collected: 12/26/17 09:21

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	381422	12/28/17 18:38	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		40	381674	01/02/18 10:43	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	381759	01/03/18 09:34	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	382706	12/26/17 09:21	BWS	TAL PEN

Client Sample ID: MW-08

Date Collected: 12/26/17 13:24

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	100	381422	12/28/17 18:42	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		80	381674	01/02/18 11:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	381759	01/03/18 09:57	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	382706	12/26/17 13:24	BWS	TAL PEN

Client Sample ID: MW-09

Date Collected: 12/26/17 16:07

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	100	381422	12/28/17 18:47	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		60	381674	01/02/18 10:43	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	381759	01/03/18 09:34	RRC	TAL PEN

TestAmerica Pensacola

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-09

Date Collected: 12/26/17 16:07

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	382706	12/26/17 16:07	BWS	TAL PEN

Client Sample ID: MW-10

Date Collected: 12/26/17 17:40

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	100	381422	12/28/17 18:51	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		60	381674	01/02/18 10:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	381759	01/03/18 09:57	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	382706	12/26/17 17:40	BWS	TAL PEN

Client Sample ID: MW-11

Date Collected: 12/27/17 06:49

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	381422	12/28/17 18:56	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		40	381674	01/02/18 11:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	381759	01/03/18 10:11	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	382706	12/27/17 06:49	BWS	TAL PEN

Client Sample ID: MW-13

Date Collected: 12/26/17 12:02

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	200	381422	12/28/17 19:00	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		100	381674	01/02/18 11:30	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		40	381759	01/03/18 09:38	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	382706	12/26/17 12:02	BWS	TAL PEN

Lab Chronicle

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Client Sample ID: MW-14

Date Collected: 12/26/17 14:43

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	100	381422	12/28/17 19:05	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		60	381674	01/02/18 10:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	381759	01/03/18 09:38	RRC	TAL PEN
Total/NA	Analysis	Field Sampling		1	382706	12/26/17 14:43	BWS	TAL PEN

Client Sample ID: DUP-01

Date Collected: 12/26/17 08:21

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A	DL		381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020	DL	25	381422	12/28/17 19:18	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		40	381674	01/02/18 10:46	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	381759	01/03/18 09:57	RRC	TAL PEN

Client Sample ID: EB-BLANK-01

Date Collected: 12/26/17 13:30

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			381316	12/28/17 12:10	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	381422	12/28/17 18:02	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	381674	01/02/18 10:03	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	381759	01/03/18 09:53	RRC	TAL PEN

Client Sample ID: FB-01

Date Collected: 12/26/17 16:30

Date Received: 12/28/17 09:39

Lab Sample ID: 400-147821-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			381316	12/28/17 12:11	DRE	TAL PEN
Total Recoverable	Analysis	6020		5	381422	12/28/17 18:06	DRE	TAL PEN
Total/NA	Analysis	SM 2540C		1	381352	12/28/17 14:07	TET	TAL PEN
Total/NA	Analysis	SM 4500 Cl- E		1	381674	01/02/18 10:18	RRC	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	381759	01/03/18 09:53	RRC	TAL PEN

Laboratory References:

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

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Metals

Prep Batch: 381316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147821-3 - DL	MW-06	Total Recoverable	Water	3005A	
400-147821-4 - DL	MW-07	Total Recoverable	Water	3005A	
400-147821-5 - DL	MW-08	Total Recoverable	Water	3005A	
400-147821-6 - DL	MW-09	Total Recoverable	Water	3005A	
400-147821-7 - DL	MW-10	Total Recoverable	Water	3005A	
400-147821-8 - DL	MW-11	Total Recoverable	Water	3005A	
400-147821-10 - DL	MW-13	Total Recoverable	Water	3005A	
400-147821-11 - DL	MW-14	Total Recoverable	Water	3005A	
400-147821-12 - DL	DUP-01	Total Recoverable	Water	3005A	
400-147821-13	EB-BLANK-01	Total Recoverable	Water	3005A	
400-147821-14	FB-01	Total Recoverable	Water	3005A	
MB 400-381316/1-A ^5	Method Blank	Total Recoverable	Water	3005A	
LCS 400-381316/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 400-381316/3-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	
400-147821-11 MS - DL	MW-14	Total Recoverable	Water	3005A	
400-147821-11 MSD - DL	MW-14	Total Recoverable	Water	3005A	

Analysis Batch: 381422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147821-3 - DL	MW-06	Total Recoverable	Water	6020	381316
400-147821-4 - DL	MW-07	Total Recoverable	Water	6020	381316
400-147821-5 - DL	MW-08	Total Recoverable	Water	6020	381316
400-147821-6 - DL	MW-09	Total Recoverable	Water	6020	381316
400-147821-7 - DL	MW-10	Total Recoverable	Water	6020	381316
400-147821-8 - DL	MW-11	Total Recoverable	Water	6020	381316
400-147821-10 - DL	MW-13	Total Recoverable	Water	6020	381316
400-147821-11 - DL	MW-14	Total Recoverable	Water	6020	381316
400-147821-12 - DL	DUP-01	Total Recoverable	Water	6020	381316
400-147821-13	EB-BLANK-01	Total Recoverable	Water	6020	381316
400-147821-14	FB-01	Total Recoverable	Water	6020	381316
MB 400-381316/1-A ^5	Method Blank	Total Recoverable	Water	6020	381316
LCS 400-381316/2-A	Lab Control Sample	Total Recoverable	Water	6020	381316
LCSD 400-381316/3-A	Lab Control Sample Dup	Total Recoverable	Water	6020	381316
400-147821-11 MS - DL	MW-14	Total Recoverable	Water	6020	381316
400-147821-11 MSD - DL	MW-14	Total Recoverable	Water	6020	381316

General Chemistry

Analysis Batch: 381352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147821-3	MW-06	Total/NA	Water	SM 2540C	
400-147821-4	MW-07	Total/NA	Water	SM 2540C	
400-147821-5	MW-08	Total/NA	Water	SM 2540C	
400-147821-6	MW-09	Total/NA	Water	SM 2540C	
400-147821-7	MW-10	Total/NA	Water	SM 2540C	
400-147821-8	MW-11	Total/NA	Water	SM 2540C	
400-147821-10	MW-13	Total/NA	Water	SM 2540C	
400-147821-11	MW-14	Total/NA	Water	SM 2540C	
400-147821-12	DUP-01	Total/NA	Water	SM 2540C	
400-147821-13	EB-BLANK-01	Total/NA	Water	SM 2540C	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

General Chemistry (Continued)

Analysis Batch: 381352 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147821-14	FB-01	Total/NA	Water	SM 2540C	
MB 400-381352/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 400-381352/2	Lab Control Sample	Total/NA	Water	SM 2540C	
400-147802-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	
400-147803-A-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 381674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147821-3	MW-06	Total/NA	Water	SM 4500 Cl- E	
400-147821-4	MW-07	Total/NA	Water	SM 4500 Cl- E	
400-147821-5	MW-08	Total/NA	Water	SM 4500 Cl- E	
400-147821-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
400-147821-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
400-147821-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
400-147821-10	MW-13	Total/NA	Water	SM 4500 Cl- E	
400-147821-11	MW-14	Total/NA	Water	SM 4500 Cl- E	
400-147821-12	DUP-01	Total/NA	Water	SM 4500 Cl- E	
400-147821-13	EB-BLANK-01	Total/NA	Water	SM 4500 Cl- E	
400-147821-14	FB-01	Total/NA	Water	SM 4500 Cl- E	
MB 400-381674/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 400-381674/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MRL 400-381674/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
400-147876-B-2 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-147876-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	
400-147876-B-3 MS	Matrix Spike	Total/NA	Water	SM 4500 Cl- E	
400-147876-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 381759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147821-3	MW-06	Total/NA	Water	SM 4500 SO4 E	
400-147821-4	MW-07	Total/NA	Water	SM 4500 SO4 E	
400-147821-5	MW-08	Total/NA	Water	SM 4500 SO4 E	
400-147821-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
400-147821-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
400-147821-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
400-147821-10	MW-13	Total/NA	Water	SM 4500 SO4 E	
400-147821-11	MW-14	Total/NA	Water	SM 4500 SO4 E	
400-147821-12	DUP-01	Total/NA	Water	SM 4500 SO4 E	
400-147821-13	EB-BLANK-01	Total/NA	Water	SM 4500 SO4 E	
400-147821-14	FB-01	Total/NA	Water	SM 4500 SO4 E	
MB 400-381759/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-381759/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-381759/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
400-147876-B-1 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-147876-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	
400-147876-B-2 MS	Matrix Spike	Total/NA	Water	SM 4500 SO4 E	
400-147876-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Pensacola

QC Association Summary

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Field Service / Mobile Lab

Analysis Batch: 382706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-147821-3	MW-06	Total/NA	Water	Field Sampling	
400-147821-4	MW-07	Total/NA	Water	Field Sampling	
400-147821-5	MW-08	Total/NA	Water	Field Sampling	
400-147821-6	MW-09	Total/NA	Water	Field Sampling	
400-147821-7	MW-10	Total/NA	Water	Field Sampling	
400-147821-8	MW-11	Total/NA	Water	Field Sampling	
400-147821-10	MW-13	Total/NA	Water	Field Sampling	
400-147821-11	MW-14	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 400-381316/1-A ^5
Matrix: Water
Analysis Batch: 381422

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 381316

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.021	U	0.050	0.021	mg/L		12/28/17 12:10	12/28/17 17:44	5
Calcium	0.13	U	0.25	0.13	mg/L		12/28/17 12:10	12/28/17 17:44	5

Lab Sample ID: LCS 400-381316/2-A
Matrix: Water
Analysis Batch: 381422

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 381316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.100	0.0914		mg/L		91	80 - 120
Calcium	5.00	5.06		mg/L		101	80 - 120

Lab Sample ID: LCSD 400-381316/3-A
Matrix: Water
Analysis Batch: 381422

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 381316

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Boron	0.100	0.0932		mg/L		93	80 - 120	2	20
Calcium	5.00	5.09		mg/L		102	80 - 120	1	20

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

Lab Sample ID: 400-147821-11 MS
Matrix: Water
Analysis Batch: 381422

Client Sample ID: MW-14
Prep Type: Total Recoverable
Prep Batch: 381316

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron - DL	12		0.100	12.0	J3	mg/L		203	75 - 125
Calcium - DL	280		5.00	288	J3	mg/L		211	75 - 125

Lab Sample ID: 400-147821-11 MSD
Matrix: Water
Analysis Batch: 381422

Client Sample ID: MW-14
Prep Type: Total Recoverable
Prep Batch: 381316

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Boron - DL	12		0.100	11.9		mg/L		96	75 - 125	1	20
Calcium - DL	280		5.00	281		mg/L		88	75 - 125	2	20

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

Lab Sample ID: MB 400-381352/1
Matrix: Water
Analysis Batch: 381352

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	3.4	U	5.0	3.4	mg/L			12/28/17 14:07	1

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

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

Lab Sample ID: LCS 400-381352/2
Matrix: Water
Analysis Batch: 381352

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	272		mg/L		93	78 - 122

Lab Sample ID: 400-147802-A-1 DU
Matrix: Water
Analysis Batch: 381352

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	900		898		mg/L		0	5

Lab Sample ID: 400-147803-A-1 DU
Matrix: Water
Analysis Batch: 381352

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 400-381674/6
Matrix: Water
Analysis Batch: 381674

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			01/02/18 09:47	1

Lab Sample ID: LCS 400-381674/7
Matrix: Water
Analysis Batch: 381674

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	31.9		mg/L		106	90 - 110

Lab Sample ID: MRL 400-381674/3
Matrix: Water
Analysis Batch: 381674

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	1.97	I	mg/L		98	50 - 150

Lab Sample ID: 400-147876-B-2 MS
Matrix: Water
Analysis Batch: 381674

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	17		10.0	27.1		mg/L		103	73 - 120

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

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

Lab Sample ID: 400-147876-B-2 MSD
Matrix: Water
Analysis Batch: 381674

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	17		10.0	27.1		mg/L		102	73 - 120	0	8

Lab Sample ID: 400-147876-B-3 MS
Matrix: Water
Analysis Batch: 381674

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	RPD	RPD Limit
Chloride	17		10.0	27.6		mg/L		106	73 - 120		

Lab Sample ID: 400-147876-B-3 MSD
Matrix: Water
Analysis Batch: 381674

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	17		10.0	27.7		mg/L		107	73 - 120	0	8

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-381759/6
Matrix: Water
Analysis Batch: 381759

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			01/03/18 09:16	1

Lab Sample ID: LCS 400-381759/7
Matrix: Water
Analysis Batch: 381759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	15.0	14.6		mg/L		97	90 - 110		

Lab Sample ID: MRL 400-381759/3
Matrix: Water
Analysis Batch: 381759

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	5.00	4.01	I	mg/L		80	50 - 150		

Lab Sample ID: 400-147876-B-1 MS
Matrix: Water
Analysis Batch: 381759

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	RPD	RPD Limit
Sulfate	13		10.0	22.9		mg/L		104	77 - 128		

TestAmerica Pensacola

QC Sample Results

Client: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

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

Lab Sample ID: 400-147876-B-1 MSD

Matrix: Water

Analysis Batch: 381759

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	13		10.0	22.4		mg/L		99	77 - 128	2	5

Lab Sample ID: 400-147876-B-2 MS

Matrix: Water

Analysis Batch: 381759

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	RPD	RPD Limit
Sulfate	29		10.0	37.2		mg/L		82	77 - 128		

Lab Sample ID: 400-147876-B-2 MSD

Matrix: Water

Analysis Batch: 381759

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	29		10.0	37.8		mg/L		88	77 - 128	2	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: Kristi Mitchell Company: Gulf Power Company Address: BIN 731 One Energy Place City: Pensacola State, Zip: FL, 32520 Phone: 850-444-6427(Tel) Email: krmitch@southernco.com Project Name: CCR Smith Plant Site: Florida		Lab PM: Whitmire, Cheyenne R E-Mail: cheyenne.whitmire@testamericainc.com Carrier Tracking No(s): Lab No: 400-70103-28293.1 Page: Page 1 of 1 Job #:	
Analysis Requested  400-147821 COC 2540C - TDS 6020 - Boron & Calcium SM4500 Cl, E, SM4500 SO4 E		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:	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 40006609 SSOV#:		Special Instructions/Note:	
Sample Identification		Field Filtered Sample (Yes or No)	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, AA=Air)
12/26/17	1053	G	Water
12/26/17	0921		Water
12/26/17	1324		Water
12/26/17	1407		Water
12/26/17	1740		Water
12/27/17	0649		Water
12/26/17	1302		Water
12/26/17	1443		Water
12/26/17	0831		Water
12/26/17	1330		Water
12/26/17	1630	G	Water
Dup-01 CB-DenK-01 PB-01			
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:			
Relinquished by: [Signature]		Date: 12/29/17	
Relinquished by: [Signature]		Date: 12/29/17 1830	
Relinquished by: [Signature]		Date: 12/28/17 0505	
Relinquished by: [Signature]		Date: 12/28/17 0939	
Custody Seal No.: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Method of Shipment:			
Received by: [Signature]		Date/Time: 12-27-17 1830	
Received by: [Signature]		Date/Time: 12/28/17 0505	
Received by: [Signature]		Date/Time: 12/28/17 0939	
Company: RDH EW		Company: RDH EW	
Company: RDH EW		Company: RDH EW	
Company: RDH EW		Company: RDH EW	
Cooler Temperature(s) °C and Other Remarks: 13.3-18.7 TO 1.0C TR7 TO			



Login Sample Receipt Checklist

Client: Gulf Power Company

Job Number: 400-147821-1

SDG Number:

Login Number: 147821

List Number: 1

Creator: Ott, Tina M

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	1.0°C IR7
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: Gulf Power Company
Project/Site: CCR Smith Plant

TestAmerica Job ID: 400-147821-1

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	01-12-19
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	12-31-18
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	12-31-18
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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

APPENDIX B
STATISTICAL ANALYSES

Well	Constituent	Upper Statistical Limit	Upper Statistical Limit	Initial Result	Statistically Significant	Verified Result	Statistically Significant
MW-6	Boron	0.2534	NA	8.5	Yes	8	Yes
MW-7	Boron	0.2534	NA	2.9	Yes	2.8	Yes
MW-8	Boron	0.2534	NA	15	Yes	13	Yes
MW-9	Boron	0.2534	NA	9.6	Yes	9	Yes
MW-10	Boron	0.2534	NA	11	Yes	9.9	Yes
MW-11	Boron	0.2534	NA	3.9	Yes	3.6	Yes
MW-13	Boron	0.2534	NA	17	Yes	16	Yes
MW-14	Boron	0.2534	NA	12	Yes	12	Yes
MW-6	Calcium	60.56	NA	280	Yes	290	Yes
MW-7	Calcium	60.56	NA	190	Yes	190	Yes
MW-8	Calcium	60.56	NA	560	Yes	530	Yes
MW-9	Calcium	60.56	NA	370	Yes	310	Yes
MW-10	Calcium	60.56	NA	520	Yes	510	Yes
MW-11	Calcium	60.56	NA	83	Yes	82	Yes
MW-13	Calcium	60.56	NA	810	Yes	760	Yes
MW-14	Calcium	60.56	NA	300	Yes	280	Yes
MW-6	Chloride	256.7	NA	3,000	Yes	2,900	Yes
MW-7	Chloride	256.7	NA	1,400	Yes	1,300	Yes
MW-8	Chloride	256.7	NA	3,300	Yes	3,300	Yes
MW-9	Chloride	256.7	NA	2,400	Yes	2,300	Yes
MW-10	Chloride	256.7	NA	2,900	Yes	2,600	Yes
MW-11	Chloride	256.7	NA	1,600	Yes	1,600	Yes
MW-13	Chloride	256.7	NA	4,800	Yes	4,100	Yes
MW-14	Chloride	256.7	NA	2,400	Yes	2,300	Yes
MW-6	Sulfate	6.6	NA	520	Yes	510	Yes
MW-7	Sulfate	6.6	NA	670	Yes	660	Yes
MW-8	Sulfate	6.6	NA	910	Yes	880	Yes
MW-9	Sulfate	6.6	NA	760	Yes	610	Yes

Well	Constituent	Upper Statistical Limit	Upper Statistical Limit	Initial Result	Statistically Significant	Verified Result	Statistically Significant
MW-10	Sulfate	6.6	NA	790	Yes	780	Yes
MW-11	Sulfate	6.6	NA	220	Yes	220	Yes
MW-13	Sulfate	6.6	NA	1,000	Yes	950	Yes
MW-14	Sulfate	6.6	NA	650	Yes	600	Yes
MW-6	TDS	616.7	NA	5,500	Yes	6,200	Yes
MW-7	TDS	616.7	NA	3,000	Yes	3,200	Yes
MW-8	TDS	616.7	NA	6,400	Yes	6,900	Yes
MW-9	TDS	616.7	NA	5,100	Yes	5,000	Yes
MW-10	TDS	616.7	NA	6,400	Yes	6,600	Yes
MW-11	TDS	616.7	NA	3,000	Yes	3,300	Yes
MW-13	TDS	616.7	NA	9,600	Yes	8,900	Yes
MW-14	TDS	616.7	NA	5,000	Yes	5,200	Yes

PREDICTION LIMITS

Interwell Prediction Limits - All Results

Plant Smith Client: Southern Company Data: Smith CCR Printed 11/17/2017, 11:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDsND Adj.	Transform	Alpha	Method
Boron (mg/L)	MW-6	0.2534	n/a	10/12/2017	8.5	Yes	27	0.08041	0.0823	44.44	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Boron (mg/L)	MW-7	0.2534	n/a	10/12/2017	2.9	Yes	27	0.08041	0.0823	44.44	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Boron (mg/L)	MW-8	0.2534	n/a	10/13/2017	15	Yes	27	0.08041	0.0823	44.44	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Boron (mg/L)	MW-9	0.2534	n/a	10/13/2017	9.6	Yes	27	0.08041	0.0823	44.44	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Boron (mg/L)	MW-10	0.2534	n/a	10/13/2017	11	Yes	27	0.08041	0.0823	44.44	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Boron (mg/L)	MW-11	0.2534	n/a	10/13/2017	3.9	Yes	27	0.08041	0.0823	44.44	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Boron (mg/L)	MW-13	0.2534	n/a	10/13/2017	17	Yes	27	0.08041	0.0823	44.44	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Boron (mg/L)	MW-14	0.2534	n/a	10/13/2017	12	Yes	27	0.08041	0.0823	44.44	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Calcium (mg/L)	MW-6	60.56	n/a	10/12/2017	280	Yes	27	22.48	18.11	0	None	No	0.0009403 Param Inter 1 of 2
Calcium (mg/L)	MW-7	60.56	n/a	10/12/2017	190	Yes	27	22.48	18.11	0	None	No	0.0009403 Param Inter 1 of 2
Calcium (mg/L)	MW-8	60.56	n/a	10/13/2017	560	Yes	27	22.48	18.11	0	None	No	0.0009403 Param Inter 1 of 2
Calcium (mg/L)	MW-9	60.56	n/a	10/13/2017	370	Yes	27	22.48	18.11	0	None	No	0.0009403 Param Inter 1 of 2
Calcium (mg/L)	MW-10	60.56	n/a	10/13/2017	520	Yes	27	22.48	18.11	0	None	No	0.0009403 Param Inter 1 of 2
Calcium (mg/L)	MW-11	60.56	n/a	10/13/2017	83	Yes	27	22.48	18.11	0	None	No	0.0009403 Param Inter 1 of 2
Calcium (mg/L)	MW-13	60.56	n/a	10/13/2017	810	Yes	27	22.48	18.11	0	None	No	0.0009403 Param Inter 1 of 2
Calcium (mg/L)	MW-14	60.56	n/a	10/13/2017	300	Yes	27	22.48	18.11	0	None	No	0.0009403 Param Inter 1 of 2
Chloride (mg/L)	MW-6	256.7	n/a	10/12/2017	3000	Yes	27	72.41	87.67	0	None	No	0.0009403 Param Inter 1 of 2
Chloride (mg/L)	MW-7	256.7	n/a	10/12/2017	1400	Yes	27	72.41	87.67	0	None	No	0.0009403 Param Inter 1 of 2
Chloride (mg/L)	MW-8	256.7	n/a	10/13/2017	3300	Yes	27	72.41	87.67	0	None	No	0.0009403 Param Inter 1 of 2
Chloride (mg/L)	MW-9	256.7	n/a	10/13/2017	2400	Yes	27	72.41	87.67	0	None	No	0.0009403 Param Inter 1 of 2
Chloride (mg/L)	MW-10	256.7	n/a	10/13/2017	2900	Yes	27	72.41	87.67	0	None	No	0.0009403 Param Inter 1 of 2
Chloride (mg/L)	MW-11	256.7	n/a	10/13/2017	1600	Yes	27	72.41	87.67	0	None	No	0.0009403 Param Inter 1 of 2
Chloride (mg/L)	MW-13	256.7	n/a	10/13/2017	4800	Yes	27	72.41	87.67	0	None	No	0.0009403 Param Inter 1 of 2
Chloride (mg/L)	MW-14	256.7	n/a	10/13/2017	2400	Yes	27	72.41	87.67	0	None	No	0.0009403 Param Inter 1 of 2
Fluoride (mg/L)	MW-6	0.2234	n/a	10/12/2017	0.04	No	27	0.08742	0.06467	25.93	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Fluoride (mg/L)	MW-7	0.2234	n/a	10/12/2017	0.05ND	No	27	0.08742	0.06467	25.93	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Fluoride (mg/L)	MW-8	0.2234	n/a	10/13/2017	0.05ND	No	27	0.08742	0.06467	25.93	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Fluoride (mg/L)	MW-9	0.2234	n/a	10/13/2017	0.04	No	27	0.08742	0.06467	25.93	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Fluoride (mg/L)	MW-10	0.2234	n/a	10/13/2017	0.05ND	No	27	0.08742	0.06467	25.93	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Fluoride (mg/L)	MW-11	0.2234	n/a	10/13/2017	0.05ND	No	27	0.08742	0.06467	25.93	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Fluoride (mg/L)	MW-13	0.2234	n/a	10/13/2017	0.04	No	27	0.08742	0.06467	25.93	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Fluoride (mg/L)	MW-14	0.2234	n/a	10/13/2017	0.05	No	27	0.08742	0.06467	25.93	Kaplan-Meier	No	0.0009403 Param Inter 1 of 2
Sulfate (mg/L)	MW-6	6.6	n/a	10/12/2017	520	Yes	27	n/a	n/a	74.07	n/a	n/a	0.00233 NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-7	6.6	n/a	10/12/2017	670	Yes	27	n/a	n/a	74.07	n/a	n/a	0.00233 NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-8	6.6	n/a	10/13/2017	910	Yes	27	n/a	n/a	74.07	n/a	n/a	0.00233 NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-9	6.6	n/a	10/13/2017	760	Yes	27	n/a	n/a	74.07	n/a	n/a	0.00233 NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-10	6.6	n/a	10/13/2017	790	Yes	27	n/a	n/a	74.07	n/a	n/a	0.00233 NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-11	6.6	n/a	10/13/2017	220	Yes	27	n/a	n/a	74.07	n/a	n/a	0.00233 NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-13	6.6	n/a	10/13/2017	1000	Yes	27	n/a	n/a	74.07	n/a	n/a	0.00233 NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-14	6.6	n/a	10/13/2017	650	Yes	27	n/a	n/a	74.07	n/a	n/a	0.00233 NP Inter (NDs) 1 of 2
Total Dissolved Solids (mg/L)	MW-6	616.7	n/a	10/12/2017	5500	Yes	26	213.3	190.9	0	None	No	0.0009403 Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-7	616.7	n/a	10/12/2017	3000	Yes	26	213.3	190.9	0	None	No	0.0009403 Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-8	616.7	n/a	10/13/2017	6400	Yes	26	213.3	190.9	0	None	No	0.0009403 Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-9	616.7	n/a	10/13/2017	5100	Yes	26	213.3	190.9	0	None	No	0.0009403 Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-10	616.7	n/a	10/13/2017	6400	Yes	26	213.3	190.9	0	None	No	0.0009403 Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-11	616.7	n/a	10/13/2017	3000	Yes	26	213.3	190.9	0	None	No	0.0009403 Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-13	616.7	n/a	10/13/2017	9600	Yes	26	213.3	190.9	0	None	No	0.0009403 Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-14	616.7	n/a	10/13/2017	5000	Yes	26	213.3	190.9	0	None	No	0.0009403 Param Inter 1 of 2

Interwell Prediction Limits - All Results

Plant Smith Client: Southern Company Data: Smith CCR Printed 1/15/2018, 9:01 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDsND Adj.	Transform	Alpha	Method
Boron (mg/L)	MW-6	0.2534	n/a	12/26/2017	8	Yes	27	0.08041	0.0823	44.44 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Boron (mg/L)	MW-7	0.2534	n/a	12/26/2017	2.8	Yes	27	0.08041	0.0823	44.44 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Boron (mg/L)	MW-8	0.2534	n/a	12/26/2017	13	Yes	27	0.08041	0.0823	44.44 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Boron (mg/L)	MW-9	0.2534	n/a	12/26/2017	9	Yes	27	0.08041	0.0823	44.44 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Boron (mg/L)	MW-10	0.2534	n/a	12/26/2017	9.9	Yes	27	0.08041	0.0823	44.44 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Boron (mg/L)	MW-11	0.2534	n/a	12/27/2017	3.6	Yes	27	0.08041	0.0823	44.44 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Boron (mg/L)	MW-13	0.2534	n/a	12/26/2017	16	Yes	27	0.08041	0.0823	44.44 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Boron (mg/L)	MW-14	0.2534	n/a	12/26/2017	12	Yes	27	0.08041	0.0823	44.44 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Calcium (mg/L)	MW-6	60.56	n/a	12/26/2017	290	Yes	27	22.48	18.11	0 None	No	0.0009403	Param Inter 1 of 2
Calcium (mg/L)	MW-7	60.56	n/a	12/26/2017	190	Yes	27	22.48	18.11	0 None	No	0.0009403	Param Inter 1 of 2
Calcium (mg/L)	MW-8	60.56	n/a	12/26/2017	530	Yes	27	22.48	18.11	0 None	No	0.0009403	Param Inter 1 of 2
Calcium (mg/L)	MW-9	60.56	n/a	12/26/2017	310	Yes	27	22.48	18.11	0 None	No	0.0009403	Param Inter 1 of 2
Calcium (mg/L)	MW-10	60.56	n/a	12/26/2017	510	Yes	27	22.48	18.11	0 None	No	0.0009403	Param Inter 1 of 2
Calcium (mg/L)	MW-11	60.56	n/a	12/27/2017	82	Yes	27	22.48	18.11	0 None	No	0.0009403	Param Inter 1 of 2
Calcium (mg/L)	MW-13	60.56	n/a	12/26/2017	760	Yes	27	22.48	18.11	0 None	No	0.0009403	Param Inter 1 of 2
Calcium (mg/L)	MW-14	60.56	n/a	12/26/2017	280	Yes	27	22.48	18.11	0 None	No	0.0009403	Param Inter 1 of 2
Chloride (mg/L)	MW-6	256.7	n/a	12/26/2017	2900	Yes	27	72.41	87.67	0 None	No	0.0009403	Param Inter 1 of 2
Chloride (mg/L)	MW-7	256.7	n/a	12/26/2017	1300	Yes	27	72.41	87.67	0 None	No	0.0009403	Param Inter 1 of 2
Chloride (mg/L)	MW-8	256.7	n/a	12/26/2017	3300	Yes	27	72.41	87.67	0 None	No	0.0009403	Param Inter 1 of 2
Chloride (mg/L)	MW-9	256.7	n/a	12/26/2017	2300	Yes	27	72.41	87.67	0 None	No	0.0009403	Param Inter 1 of 2
Chloride (mg/L)	MW-10	256.7	n/a	12/26/2017	2600	Yes	27	72.41	87.67	0 None	No	0.0009403	Param Inter 1 of 2
Chloride (mg/L)	MW-11	256.7	n/a	12/27/2017	1600	Yes	27	72.41	87.67	0 None	No	0.0009403	Param Inter 1 of 2
Chloride (mg/L)	MW-13	256.7	n/a	12/26/2017	4100	Yes	27	72.41	87.67	0 None	No	0.0009403	Param Inter 1 of 2
Chloride (mg/L)	MW-14	256.7	n/a	12/26/2017	2300	Yes	27	72.41	87.67	0 None	No	0.0009403	Param Inter 1 of 2
Fluoride (mg/L)	MW-6	0.2234	n/a	10/12/2017	0.04	No	27	0.08742	0.06467	25.93 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Fluoride (mg/L)	MW-7	0.2234	n/a	10/12/2017	0.1ND	No	27	0.08742	0.06467	25.93 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Fluoride (mg/L)	MW-8	0.2234	n/a	10/13/2017	0.1ND	No	27	0.08742	0.06467	25.93 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Fluoride (mg/L)	MW-9	0.2234	n/a	10/13/2017	0.04	No	27	0.08742	0.06467	25.93 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Fluoride (mg/L)	MW-10	0.2234	n/a	10/13/2017	0.1ND	No	27	0.08742	0.06467	25.93 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Fluoride (mg/L)	MW-11	0.2234	n/a	10/13/2017	0.1ND	No	27	0.08742	0.06467	25.93 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Fluoride (mg/L)	MW-13	0.2234	n/a	10/13/2017	0.04	No	27	0.08742	0.06467	25.93 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Fluoride (mg/L)	MW-14	0.2234	n/a	10/13/2017	0.05	No	27	0.08742	0.06467	25.93 Kaplan-Meier	No	0.0009403	Param Inter 1 of 2
Sulfate (mg/L)	MW-6	6.6	n/a	12/26/2017	510	Yes	27	n/a	n/a	74.07 n/a	n/a	0.00233	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-7	6.6	n/a	12/26/2017	660	Yes	27	n/a	n/a	74.07 n/a	n/a	0.00233	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-8	6.6	n/a	12/26/2017	880	Yes	27	n/a	n/a	74.07 n/a	n/a	0.00233	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-9	6.6	n/a	12/26/2017	610	Yes	27	n/a	n/a	74.07 n/a	n/a	0.00233	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-10	6.6	n/a	12/26/2017	780	Yes	27	n/a	n/a	74.07 n/a	n/a	0.00233	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-11	6.6	n/a	12/27/2017	220	Yes	27	n/a	n/a	74.07 n/a	n/a	0.00233	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-13	6.6	n/a	12/26/2017	950	Yes	27	n/a	n/a	74.07 n/a	n/a	0.00233	NP Inter (NDs) 1 of 2
Sulfate (mg/L)	MW-14	6.6	n/a	12/26/2017	600	Yes	27	n/a	n/a	74.07 n/a	n/a	0.00233	NP Inter (NDs) 1 of 2
Total Dissolved Solids (mg/L)	MW-6	616.7	n/a	12/26/2017	6200	Yes	26	213.3	190.9	0 None	No	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-7	616.7	n/a	12/26/2017	3200	Yes	26	213.3	190.9	0 None	No	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-8	616.7	n/a	12/26/2017	6900	Yes	26	213.3	190.9	0 None	No	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-9	616.7	n/a	12/26/2017	5000	Yes	26	213.3	190.9	0 None	No	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-10	616.7	n/a	12/26/2017	6600	Yes	26	213.3	190.9	0 None	No	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-11	616.7	n/a	12/27/2017	3300	Yes	26	213.3	190.9	0 None	No	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-13	616.7	n/a	12/26/2017	8900	Yes	26	213.3	190.9	0 None	No	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	MW-14	616.7	n/a	12/26/2017	5200	Yes	26	213.3	190.9	0 None	No	0.0009403	Param Inter 1 of 2

Intrawell Prediction Limits - All Results

Plant Smith Client: Southern Company Data: Smith CCR Printed 11/17/2017, 11:11 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>
pH (SU)	MW-2	8.21	4.538	10/12/2017	6.66	No	8	6.374	0.6092	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-3	5.354	4.616	10/12/2017	4.74	No	8	4.985	0.1225	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-6	6.253	3.967	10/12/2017	5.37	No	8	5.11	0.3792	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-7	6.575	5.86	10/12/2017	6.13	No	8	6.218	0.1188	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-8	5.62	3.568	10/13/2017	4.46	No	8	4.594	0.3404	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-9	6.725	4.202	10/13/2017	4.95	No	8	5.464	0.4185	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-10	5.468	4.964	10/13/2017	5.33	No	8	5.216	0.08366	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-11	7.003	5.977	10/13/2017	6.73	No	8	6.49	0.1702	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-12	6.28	5.823	10/12/2017	5.9	No	8	6.051	0.07586	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-13	7.628	6.58	10/13/2017	6.87	No	8	7.104	0.1739	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-14	6.959	6.416	10/13/2017	6.68	No	8	6.688	0.09004	0	None	No	0.0004701 Param Intra 1 of 2

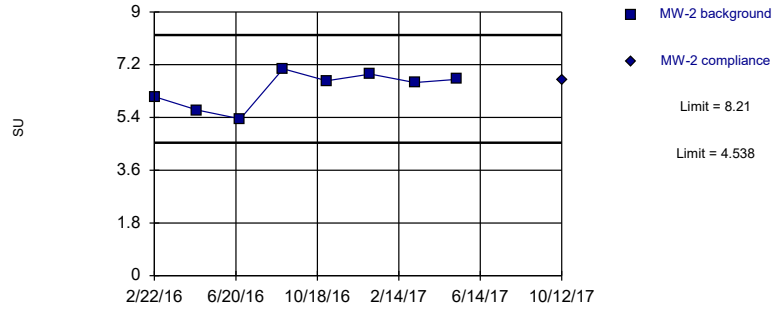
Intrawell Prediction Limits - All Results

Plant Smith Client: Southern Company Data: Smith CCR Printed 1/15/2018, 9:09 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>
pH (SU)	MW-2	8.21	4.538	10/12/2017	6.66	No	8	6.374	0.6092	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-3	5.354	4.616	10/12/2017	4.74	No	8	4.985	0.1225	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-6	6.253	3.967	12/26/2017	5.26	No	8	5.11	0.3792	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-7	6.575	5.86	12/26/2017	6.26	No	8	6.218	0.1188	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-8	5.62	3.568	12/26/2017	4.52	No	8	4.594	0.3404	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-9	6.725	4.202	12/26/2017	6.41	No	8	5.464	0.4185	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-10	5.468	4.964	12/26/2017	5.14	No	8	5.216	0.08366	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-11	7.003	5.977	12/27/2017	6.56	No	8	6.49	0.1702	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-12	6.28	5.823	10/12/2017	5.9	No	8	6.051	0.07586	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-13	7.628	6.58	12/26/2017	7.08	No	8	7.104	0.1739	0	None	No	0.0004701 Param Intra 1 of 2
pH (SU)	MW-14	6.959	6.416	12/26/2017	6.85	No	8	6.688	0.09004	0	None	No	0.0004701 Param Intra 1 of 2

Within Limits

Prediction Limit Intrawell Parametric

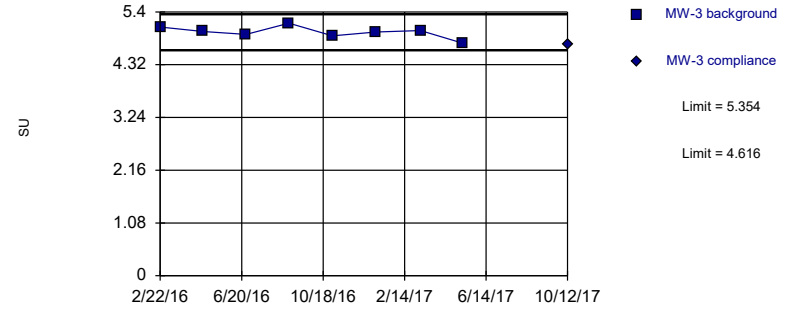


Background Data Summary: Mean=6.374, Std. Dev.=0.6092, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit Intrawell Parametric

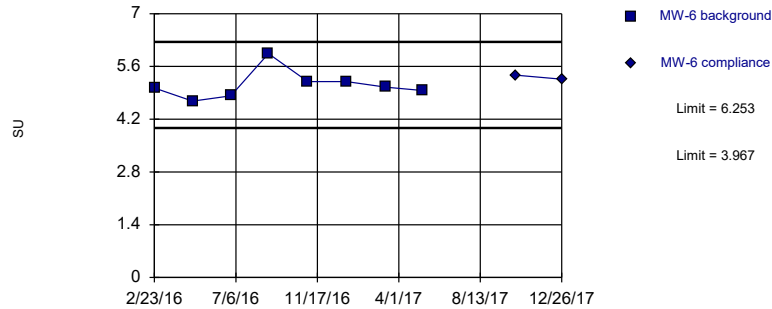


Background Data Summary: Mean=4.985, Std. Dev.=0.1225, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit Intrawell Parametric

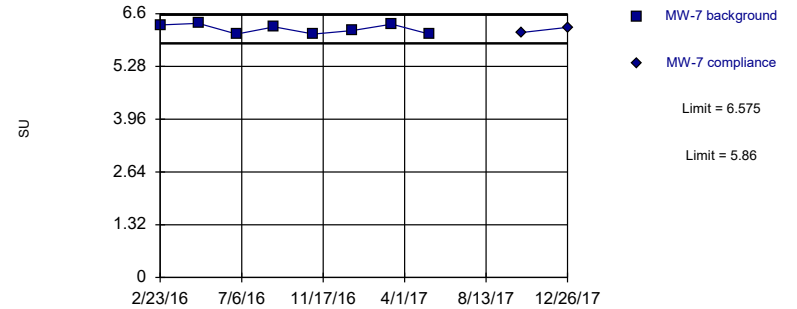


Background Data Summary: Mean=5.11, Std. Dev.=0.3792, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit Intrawell Parametric

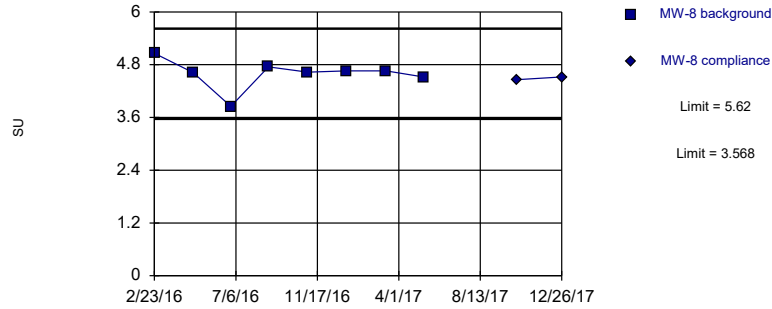


Background Data Summary: Mean=6.218, Std. Dev.=0.1188, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit
Intrawell Parametric

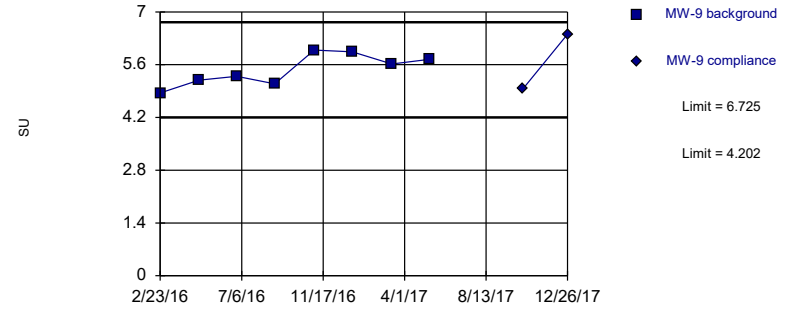


Background Data Summary: Mean=4.594, Std. Dev.=0.3404, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit
Intrawell Parametric

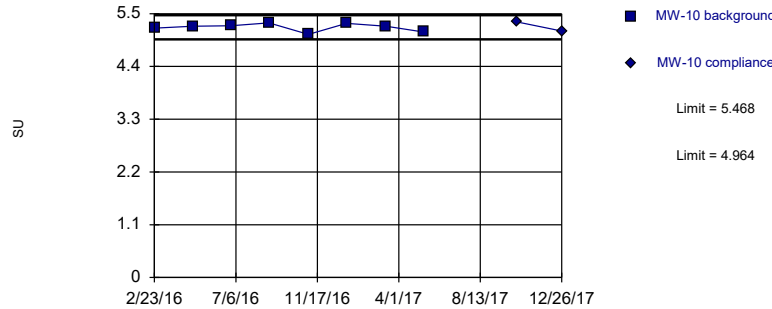


Background Data Summary: Mean=5.464, Std. Dev.=0.4185, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit
Intrawell Parametric

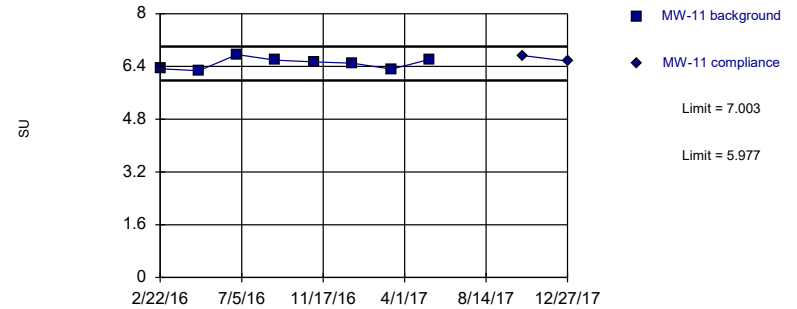


Background Data Summary: Mean=5.216, Std. Dev.=0.08366, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit
Intrawell Parametric

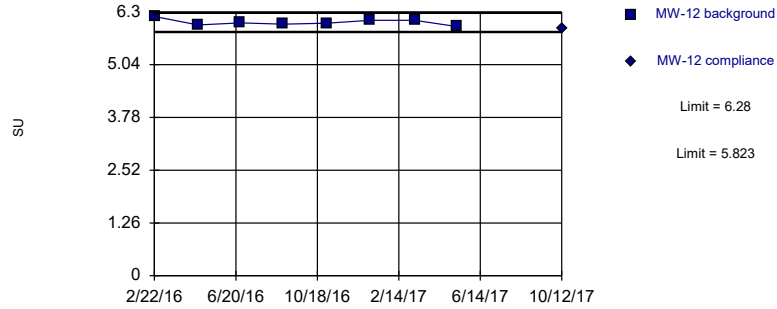


Background Data Summary: Mean=6.49, Std. Dev.=0.1702, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit
Intrawell Parametric

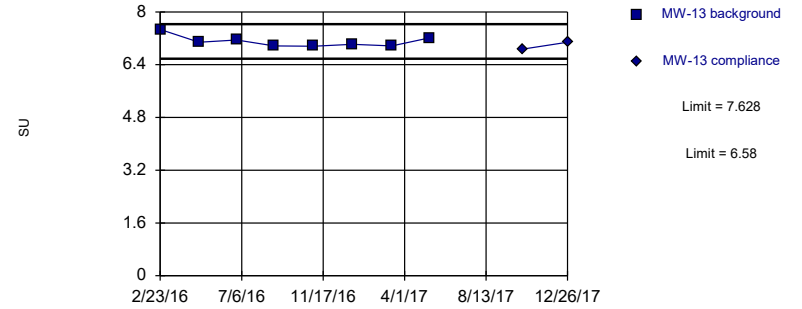


Background Data Summary: Mean=6.051, Std. Dev.=0.07586, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit
Intrawell Parametric

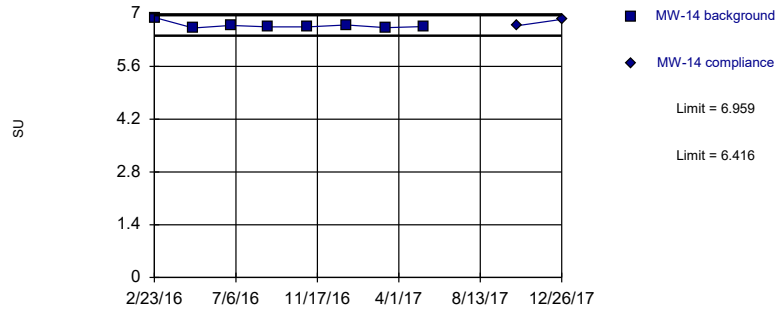


Background Data Summary: Mean=7.104, Std. Dev.=0.1739, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

Within Limits

Prediction Limit
Intrawell Parametric

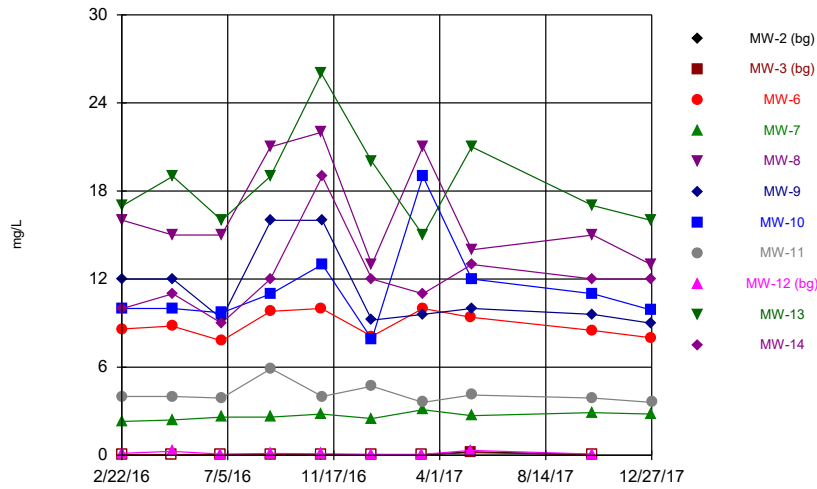


Background Data Summary: Mean=6.688, Std. Dev.=0.09004, n=8. Normality test was disabled. Kappa = 3.014 (c=7, w=8, 1 of 2, event alpha = 0.05132). Report alpha = 0.0009403.

Constituent: pH Analysis Run 1/15/2018 9:08 AM View: Intrawell PLs
Plant Smith Client: Southern Company Data: Smith CCR

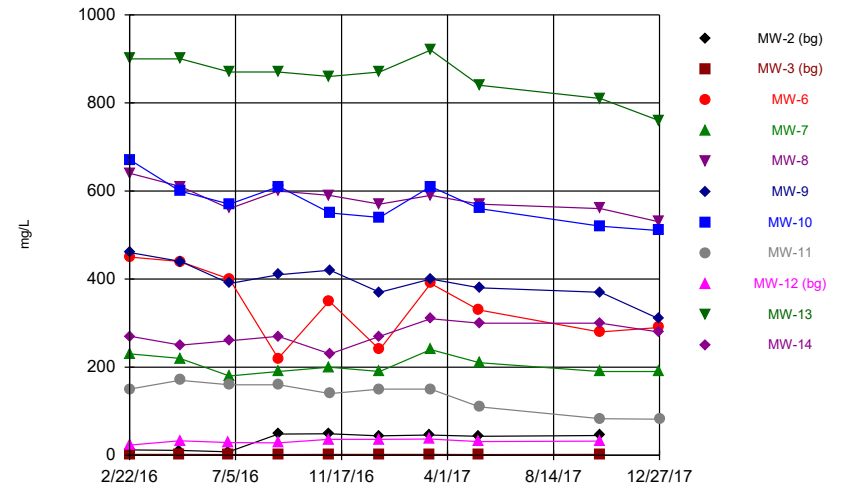
TIME SERIES

Time Series



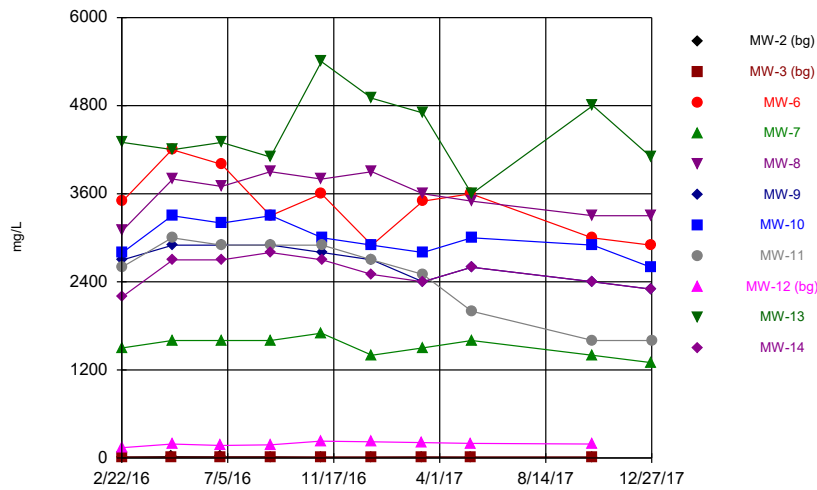
Constituent: Boron Analysis Run 1/15/2018 9:14 AM View: Descriptive
Plant Smith Client: Southern Company Data: Smith CCR

Time Series



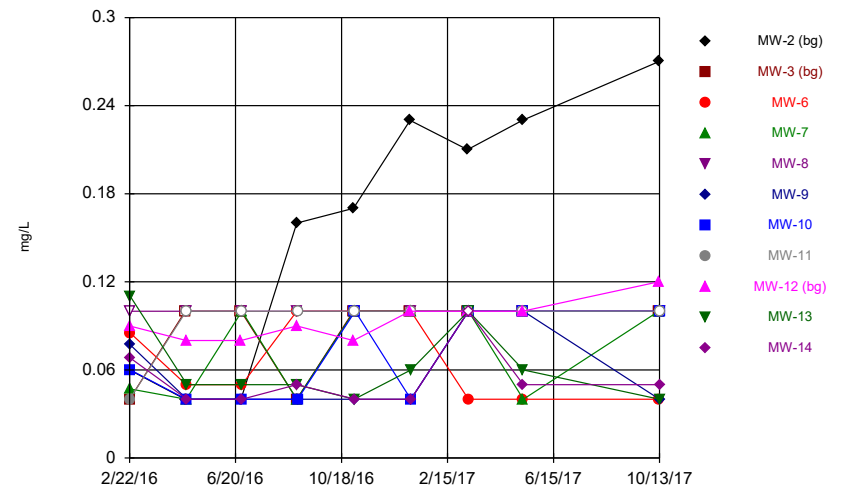
Constituent: Calcium Analysis Run 1/15/2018 9:14 AM View: Descriptive
Plant Smith Client: Southern Company Data: Smith CCR

Time Series



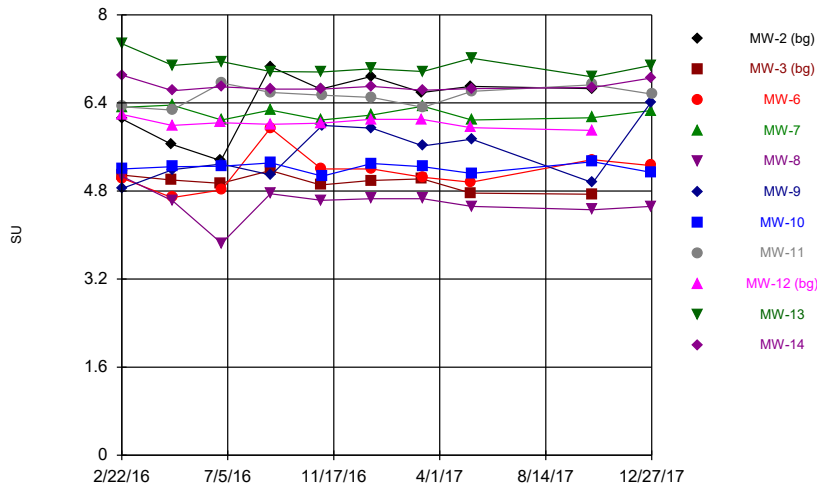
Constituent: Chloride Analysis Run 1/15/2018 9:14 AM View: Descriptive
Plant Smith Client: Southern Company Data: Smith CCR

Time Series



Constituent: Fluoride Analysis Run 1/15/2018 9:14 AM View: Descriptive
Plant Smith Client: Southern Company Data: Smith CCR

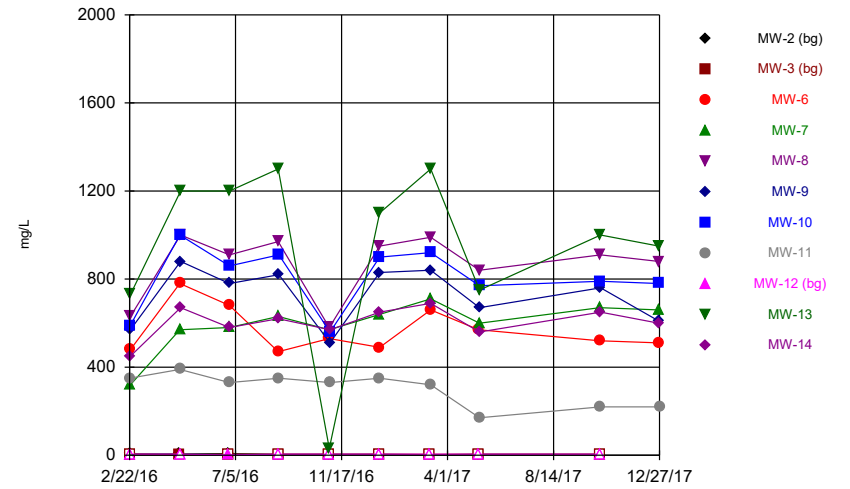
Time Series



Constituent: pH Analysis Run 1/15/2018 9:14 AM View: Descriptive
 Plant Smith Client: Southern Company Data: Smith CCR

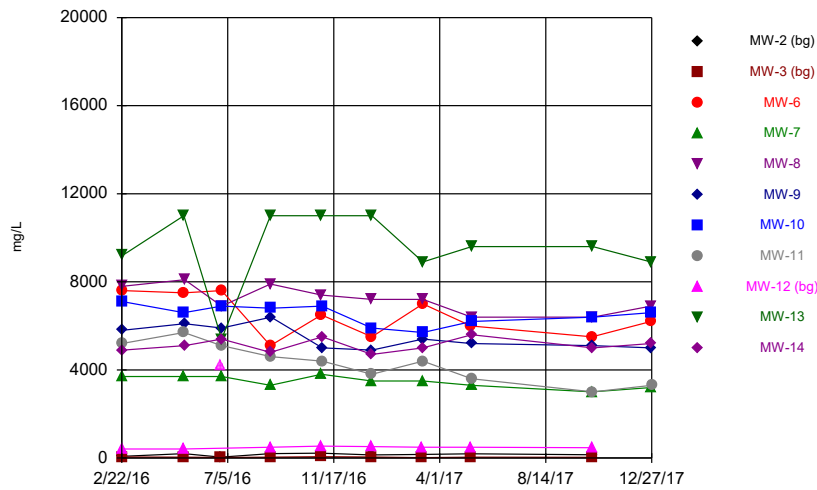
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfate Analysis Run 1/15/2018 9:14 AM View: Descriptive
 Plant Smith Client: Southern Company Data: Smith CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:14 AM View: Descriptive
 Plant Smith Client: Southern Company Data: Smith CCR

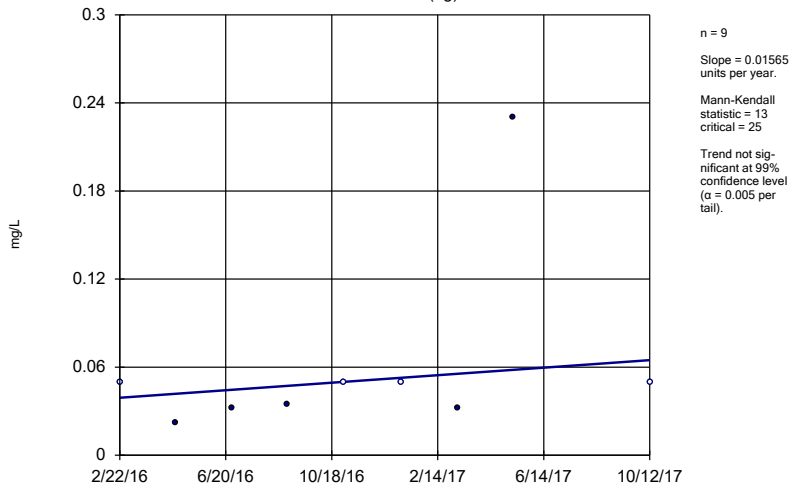
TREND TESTS

Trend Test Summary Table - All Results

Plant Smith Client: Southern Company Data: Smith CCR Printed 1/15/2018, 9:13 AM

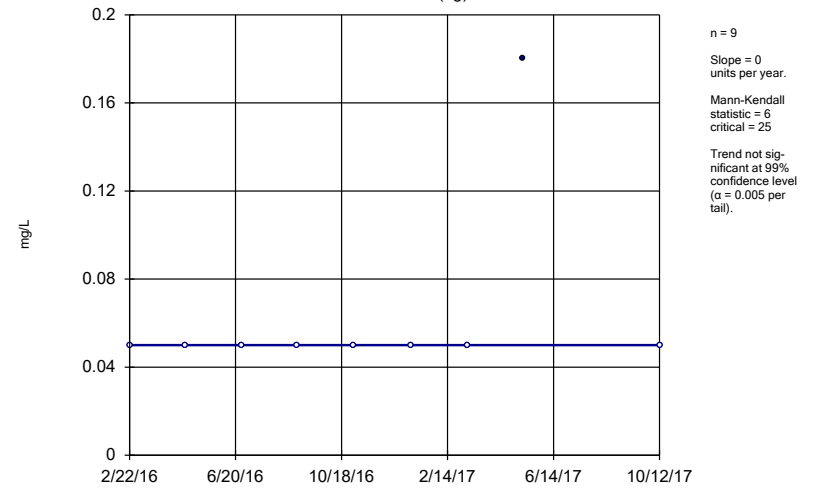
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	MW-2 (bg)	0.01565	13	25	No	9	44.44	n/a	n/a	0.01	NP
Boron (mg/L)	MW-3 (bg)	0	6	25	No	9	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	MW-6	-0.06114	-2	-30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	MW-7	0.2874	27	30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	MW-8	-1.201	-12	-30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	MW-9	-1.601	-16	-30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	MW-10	0.6104	5	30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	MW-11	-0.2002	-12	-30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	MW-12 (bg)	-0.03701	-12	-25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	MW-13	0	-2	-30	No	10	0	n/a	n/a	0.01	NP
Boron (mg/L)	MW-14	1.221	16	30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-2 (bg)	15.69	8	25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-3 (bg)	0	2	25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-6	-86.9	-21	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-7	-8.711	-7	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-8	-42.77	-30	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-9	-57.33	-32	-30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-10	-57.33	-28	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-11	-50.53	-31	-30	Yes	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-12 (bg)	4.311	13	25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-13	-56.15	-27	-30	No	10	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-14	24.66	19	30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-2 (bg)	-3.98	-17	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-3 (bg)	0.6918	18	25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-6	-576.3	-20	-30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-7	-114.4	-15	-30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-8	-288.2	-12	-30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-9	-360.2	-30	-30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-10	-287.4	-19	-30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-11	-756.5	-31	-30	Yes	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-12 (bg)	29.57	11	25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-13	-60.03	-3	-30	No	10	0	n/a	n/a	0.01	NP
Chloride (mg/L)	MW-14	-205.1	-15	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-2 (bg)	-1.114	-14	-25	No	9	44.44	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-3 (bg)	0	6	25	No	9	88.89	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-6	-19.41	-5	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-7	78.4	28	30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-8	-20.05	-4	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-9	-53.55	-5	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-10	-49.32	-5	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-11	-85.06	-28	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-12 (bg)	0	4	25	No	9	88.89	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-13	-129.9	-3	-30	No	10	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-14	26.2	6	30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-2 (bg)	27.47	3	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-3 (bg)	-6.736	-9	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-6	-935.9	-17	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-7	-308.5	-26	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-8	-738.6	-26	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-9	-579.4	-20	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-10	-386.7	-17	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-11	-1422	-38	-30	Yes	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-12 (bg)	18.31	4	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-13	0	-7	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-14	162.9	8	30	No	10	0	n/a	n/a	0.01	NP

Sen's Slope Estimator
MW-2 (bg)



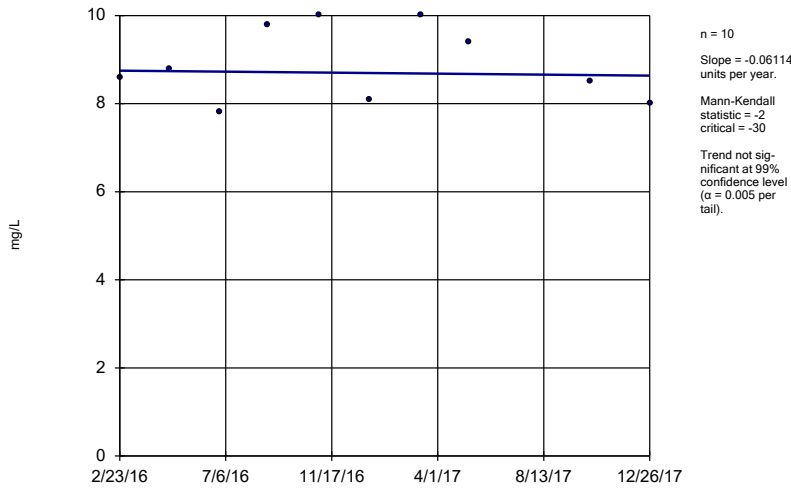
Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator
MW-3 (bg)



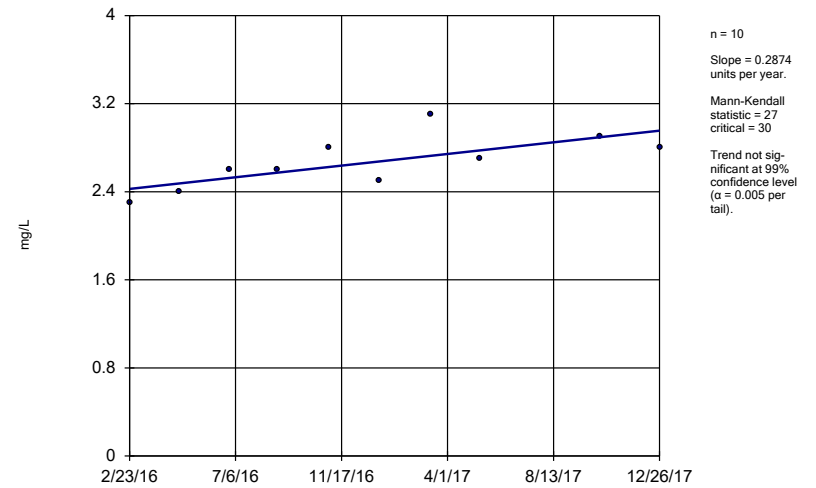
Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator
MW-6



Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

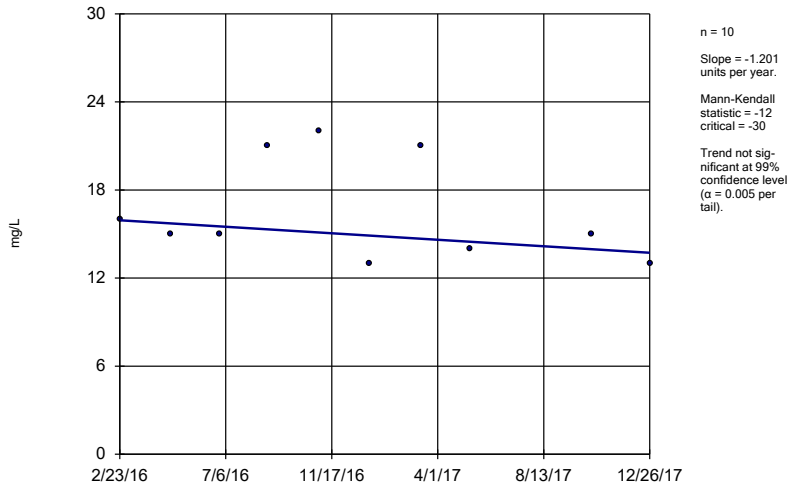
Sen's Slope Estimator
MW-7



Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

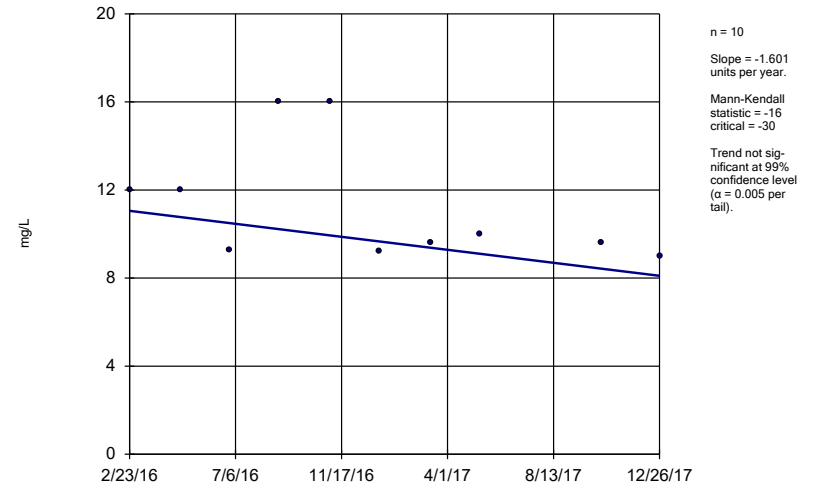
MW-8



Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

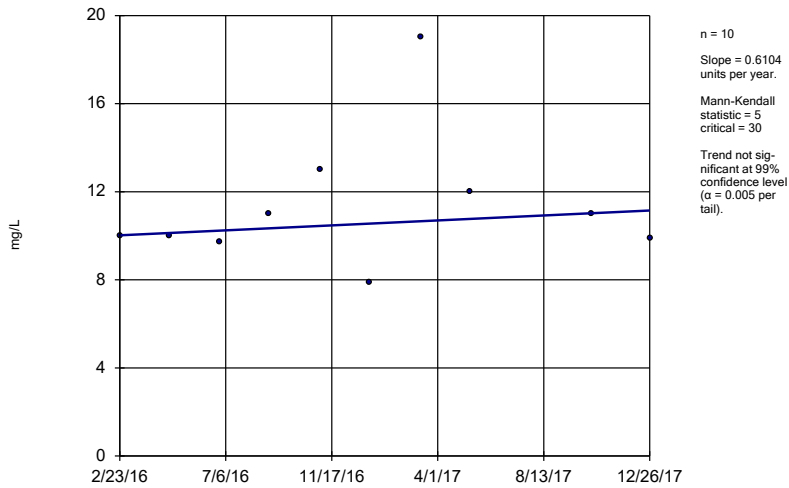
MW-9



Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

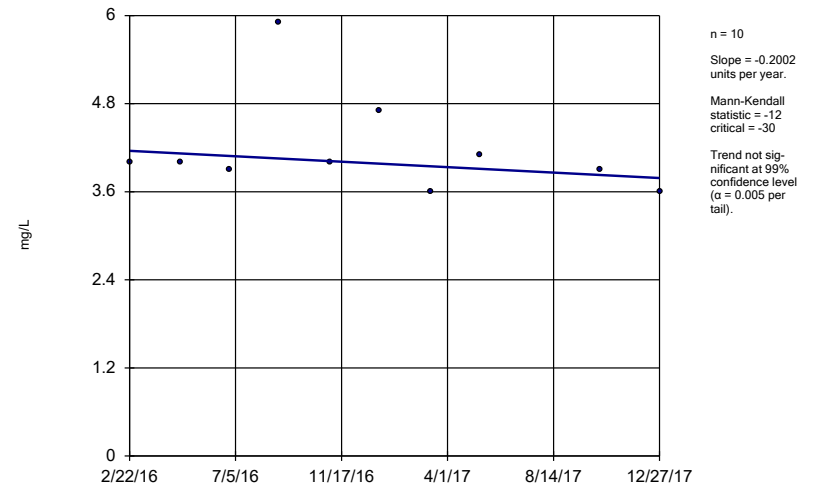
MW-10



Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

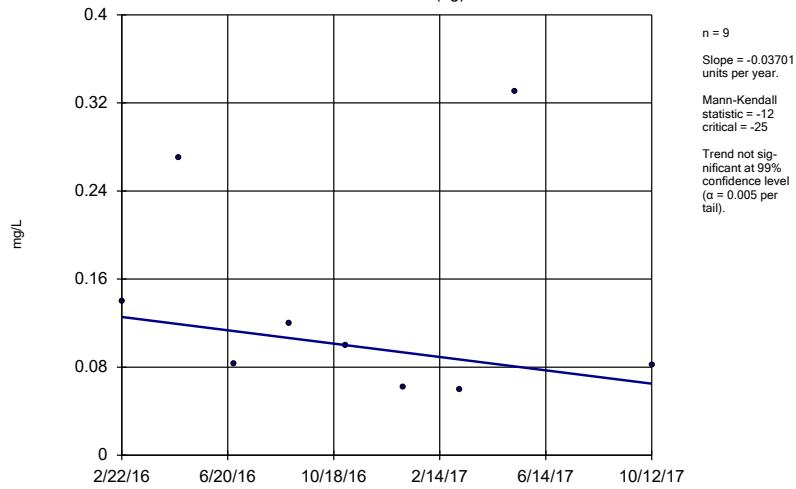
Sen's Slope Estimator

MW-11



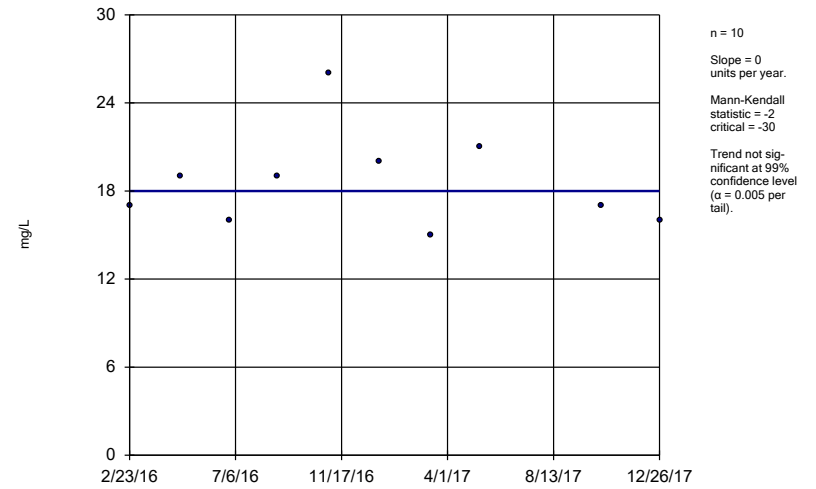
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 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator
MW-12 (bg)



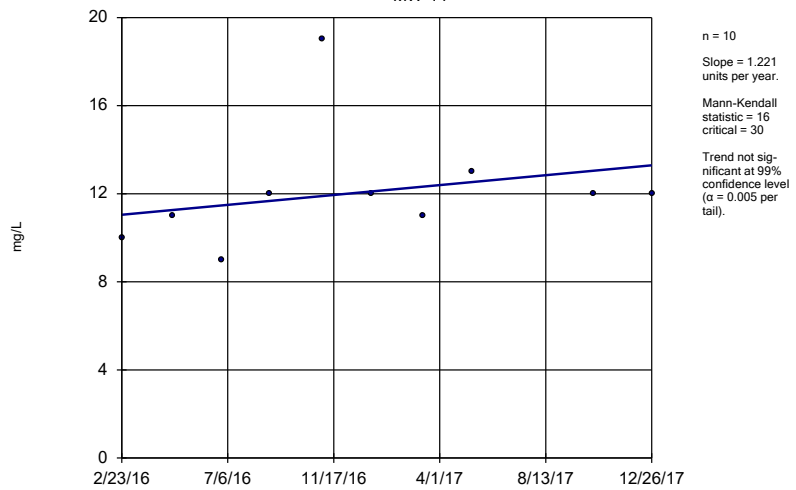
Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator
MW-13



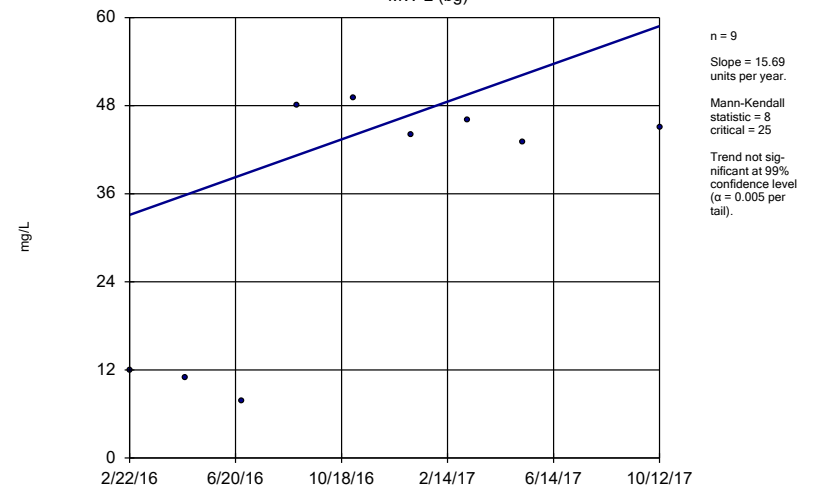
Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator
MW-14



Constituent: Boron Analysis Run 1/15/2018 9:11 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

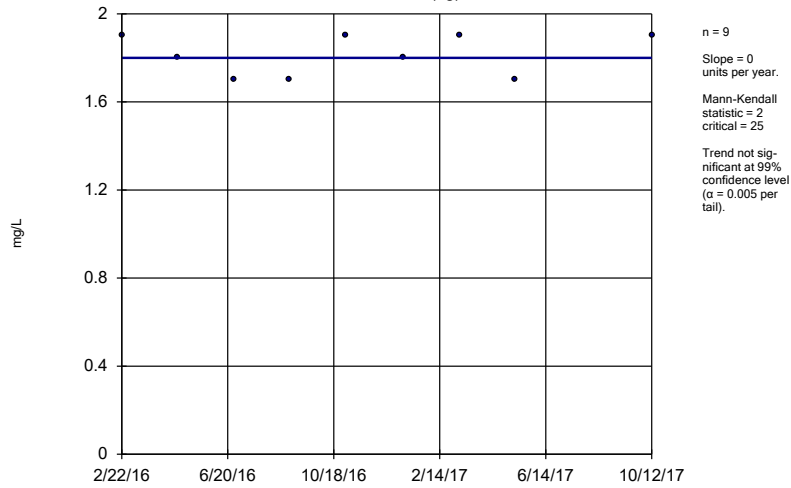
Sen's Slope Estimator
MW-2 (bg)



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

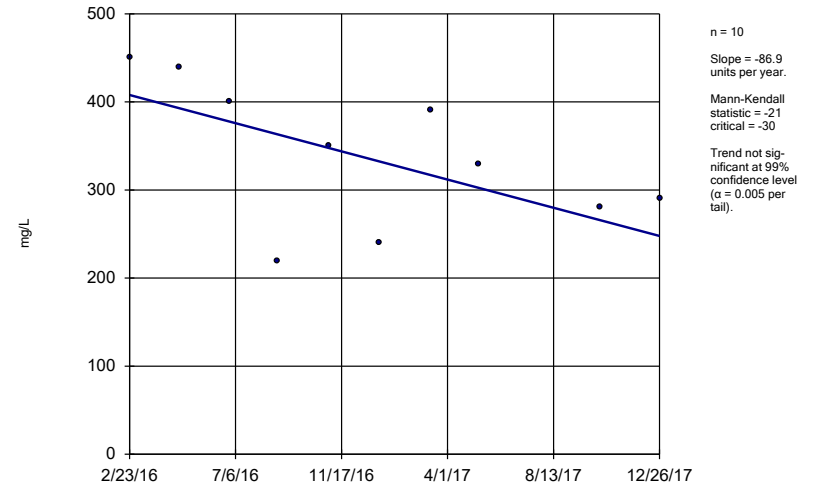
MW-3 (bg)



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

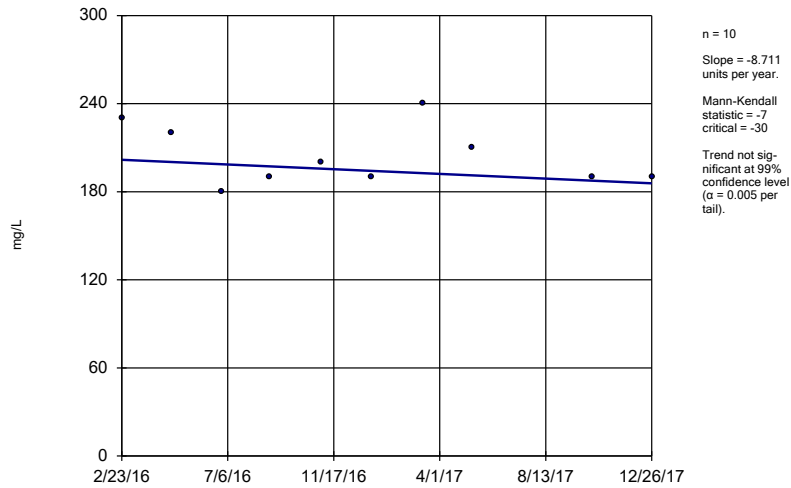
MW-6



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

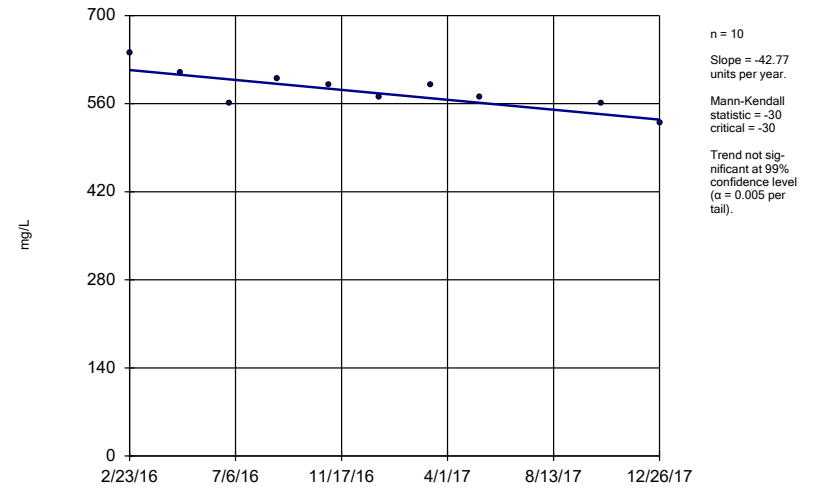
MW-7



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

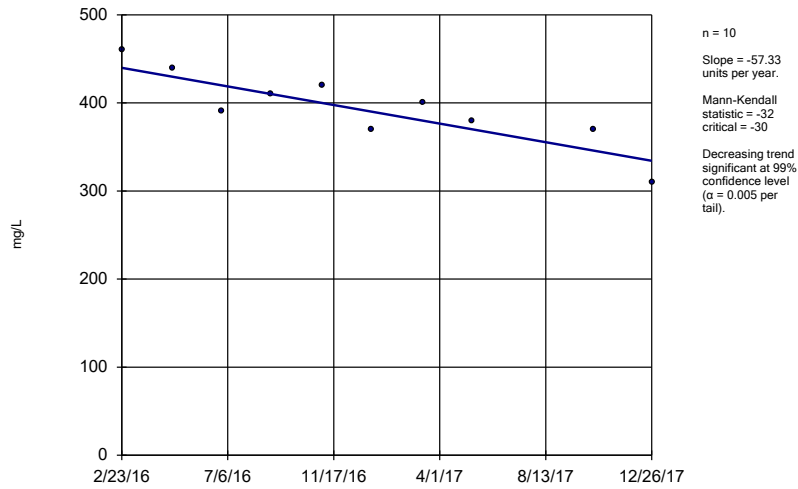
MW-8



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

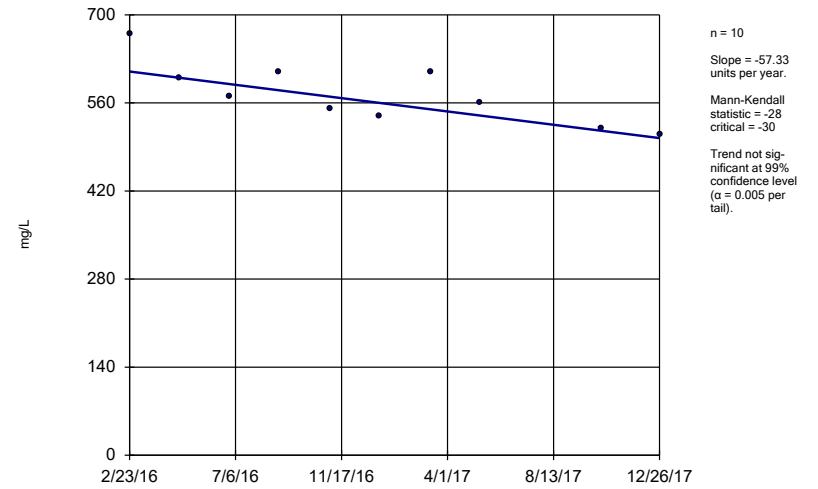
MW-9



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

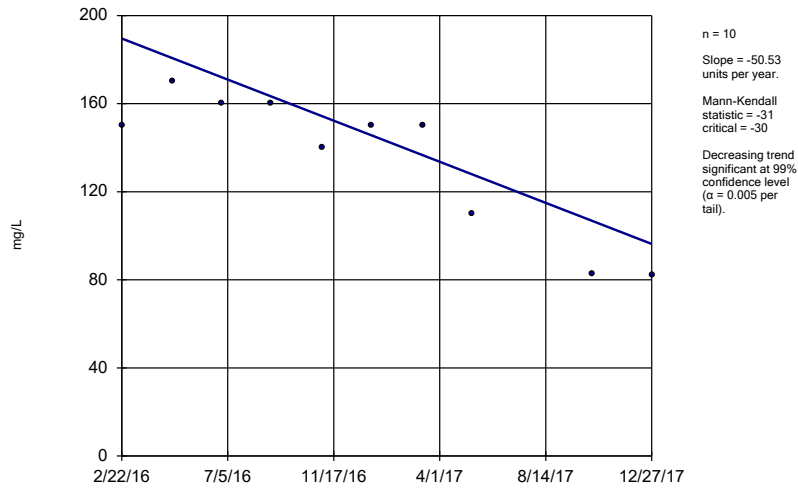
MW-10



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

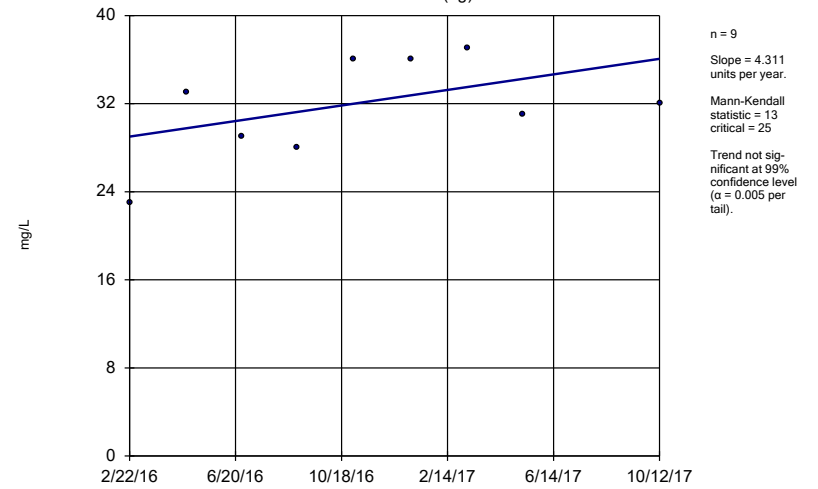
MW-11



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

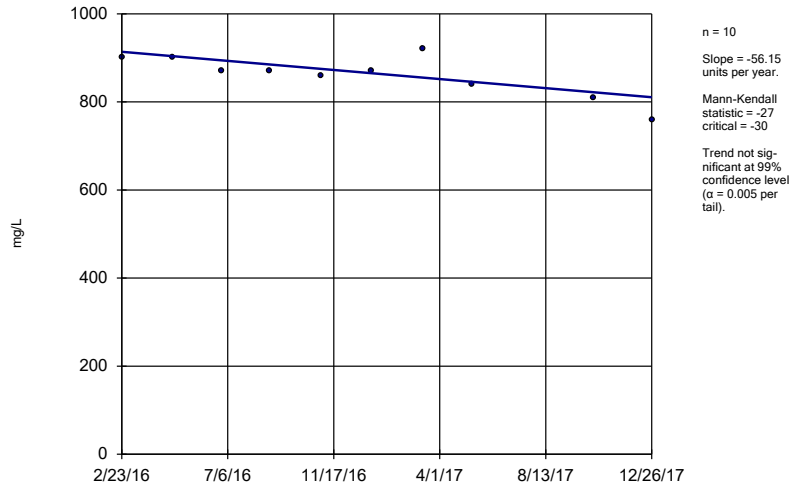
MW-12 (bg)



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

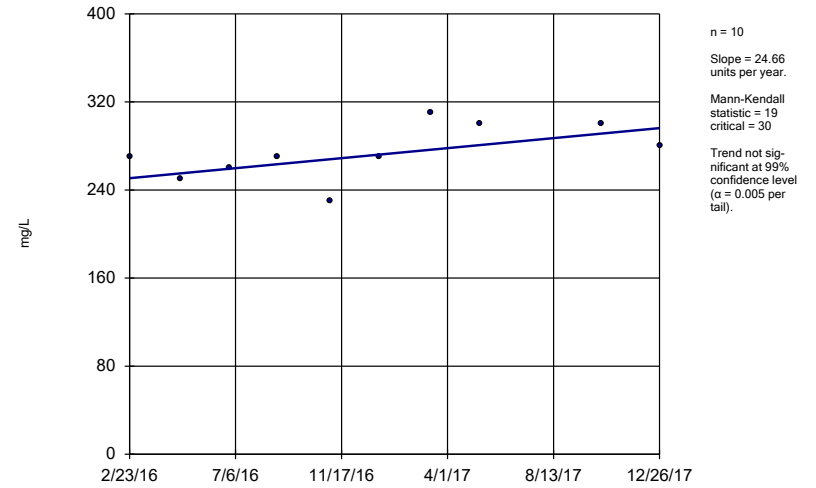
MW-13



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

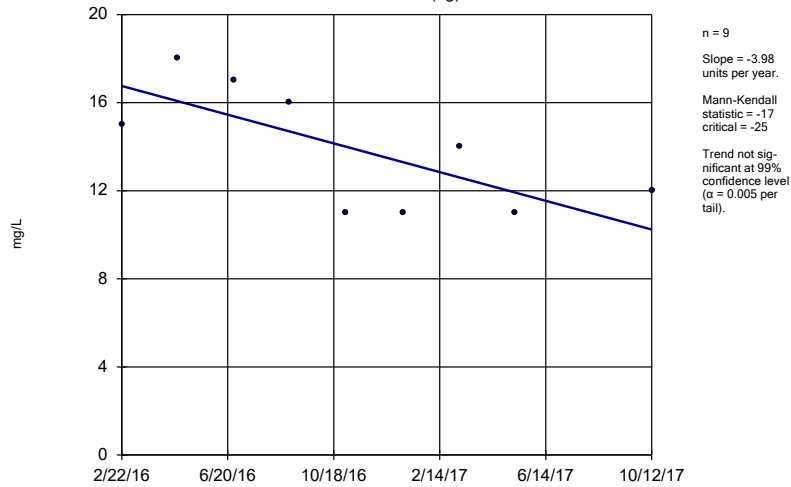
MW-14



Constituent: Calcium Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

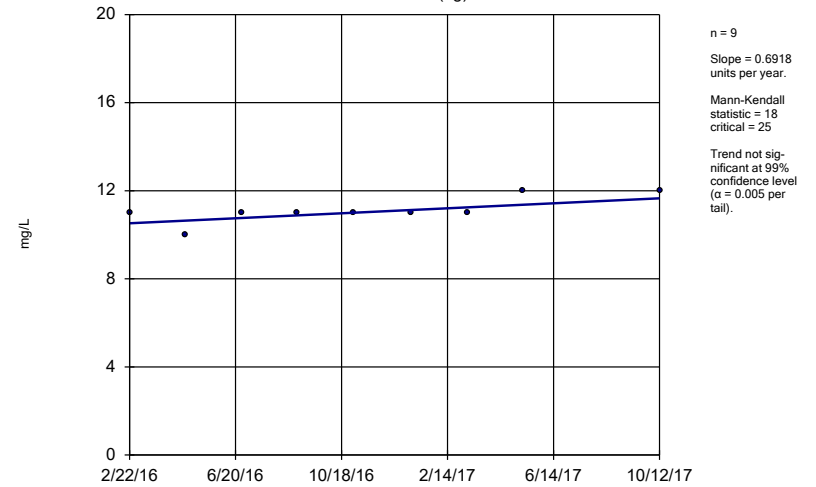
MW-2 (bg)



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

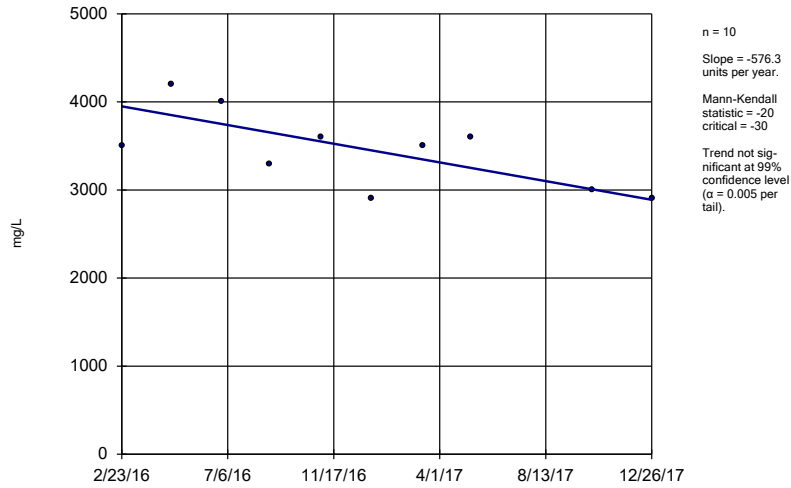
MW-3 (bg)



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

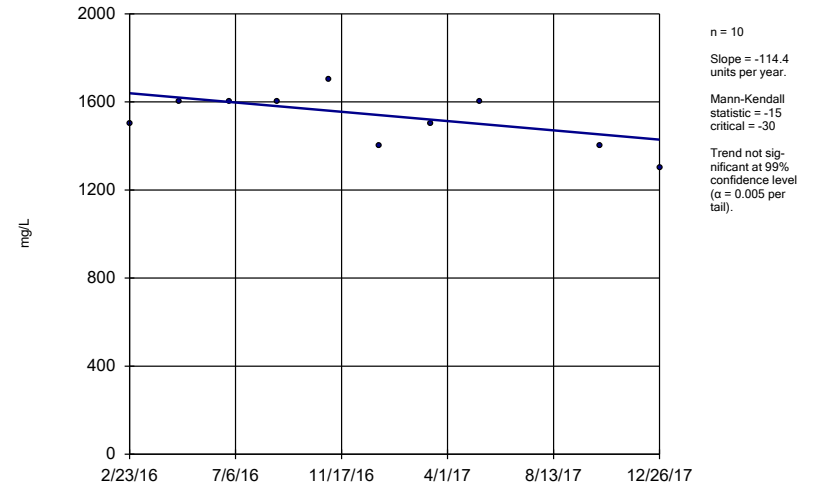
MW-6



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

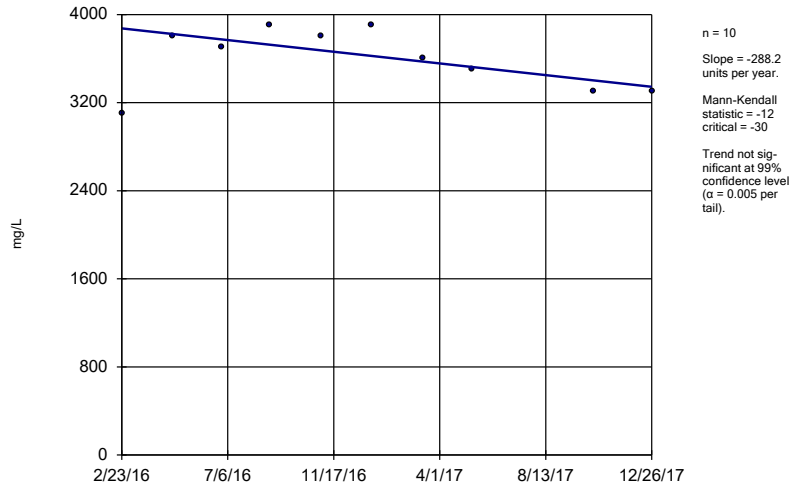
MW-7



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

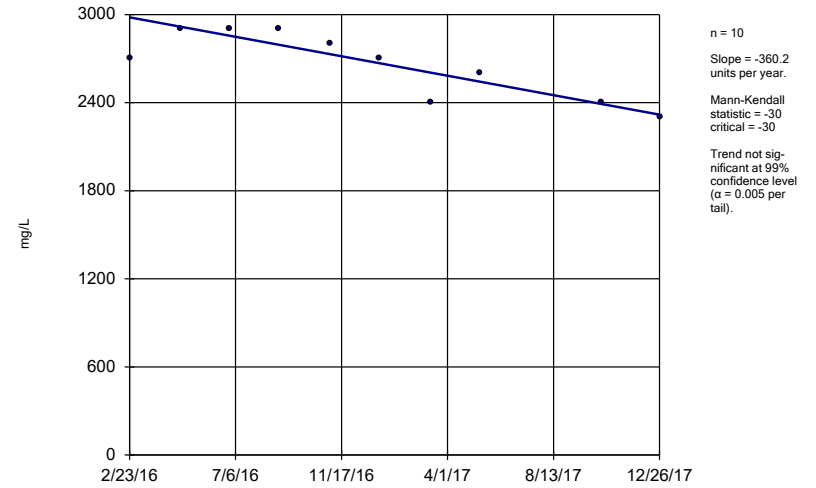
MW-8



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

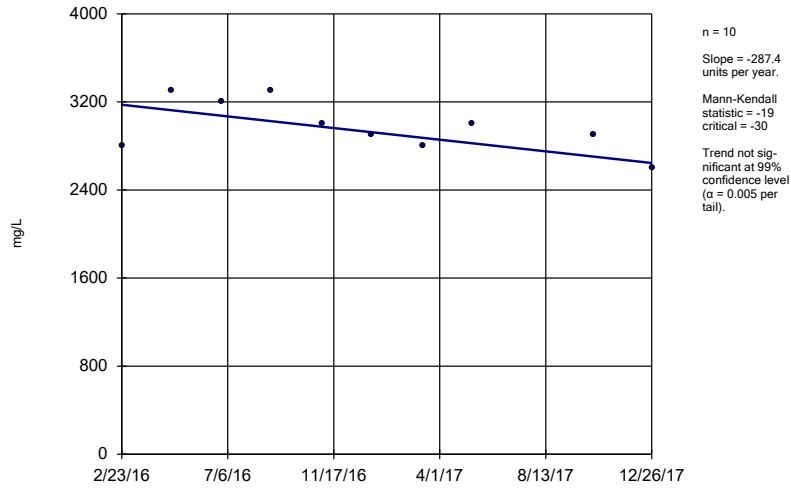
MW-9



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

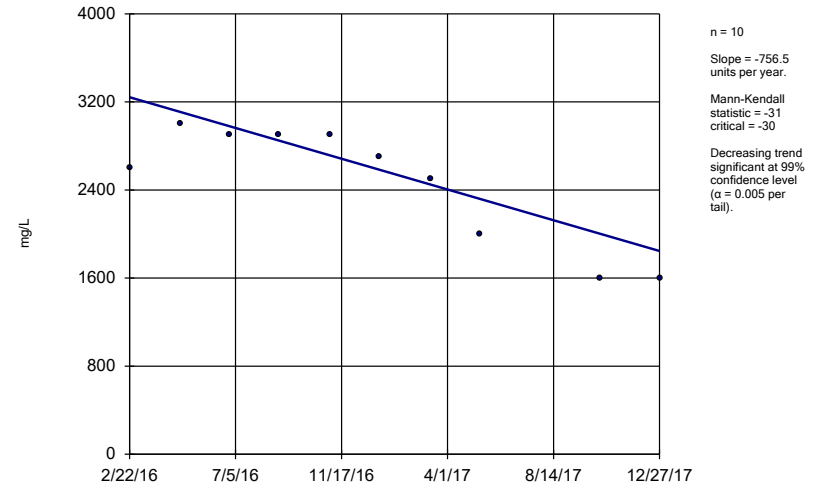
MW-10



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

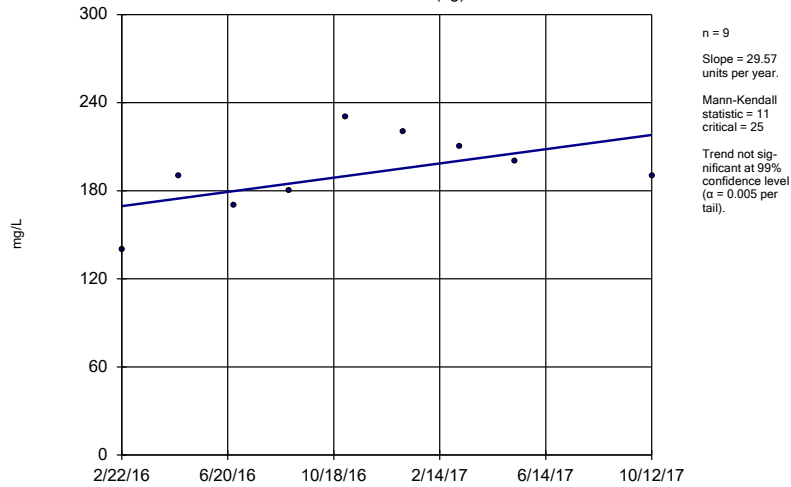
MW-11



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

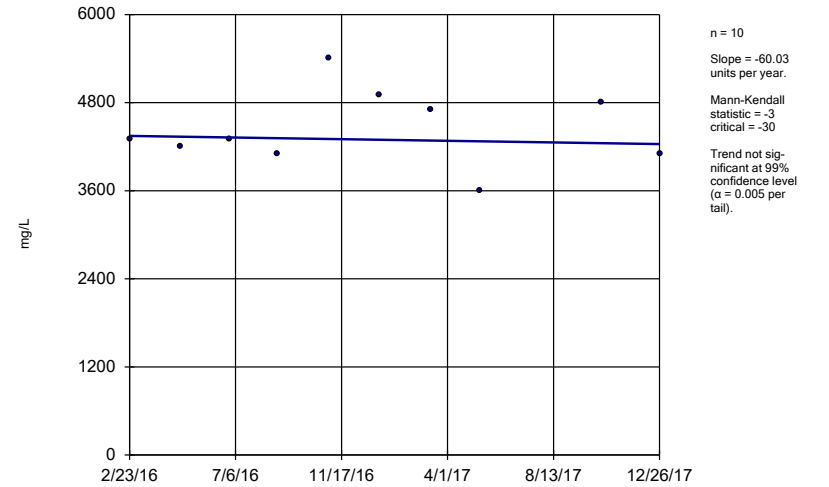
MW-12 (bg)



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

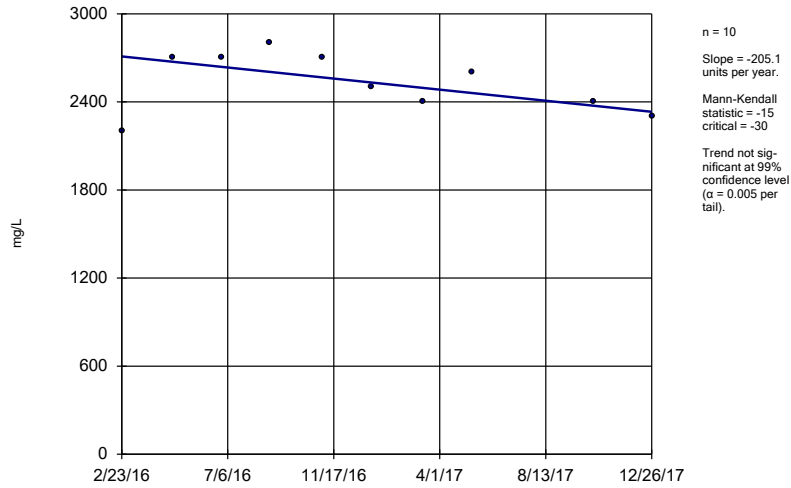
MW-13



Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

MW-14

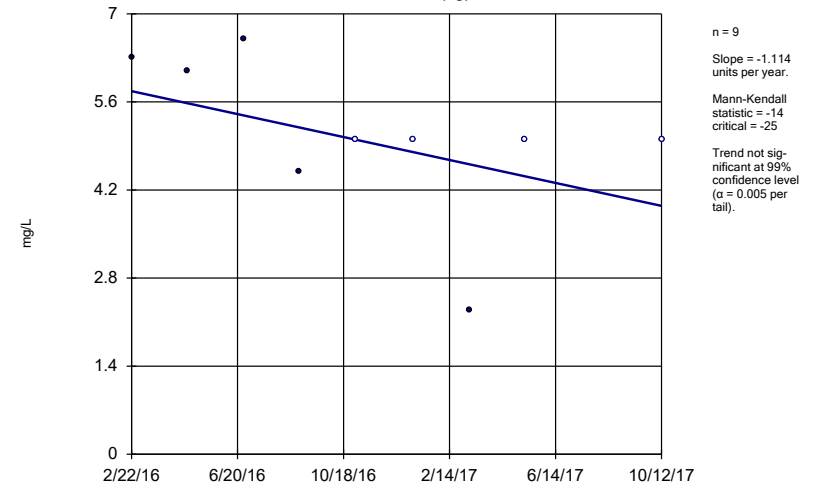


Constituent: Chloride Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

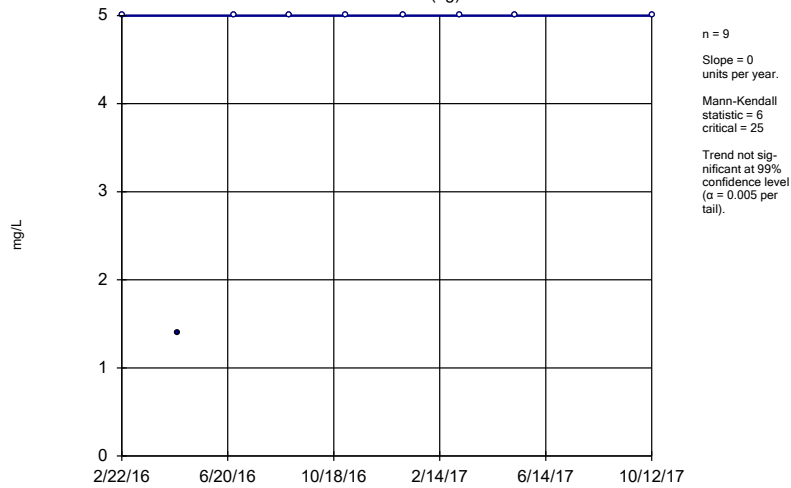
MW-2 (bg)



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

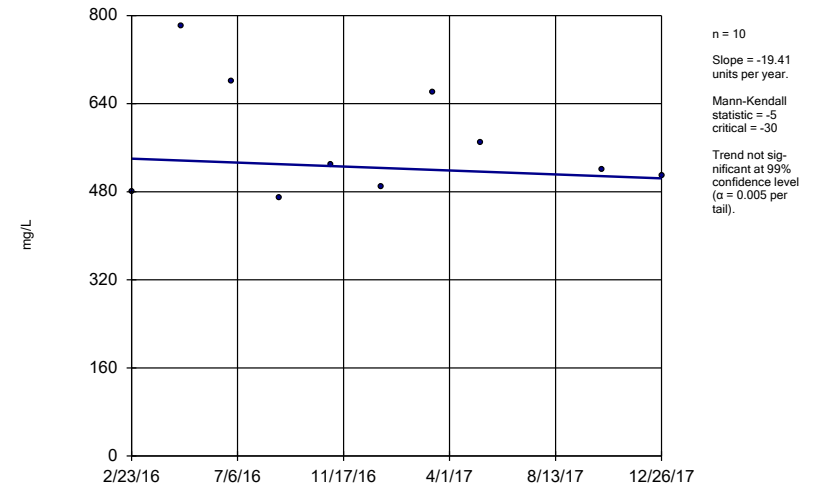
MW-3 (bg)



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

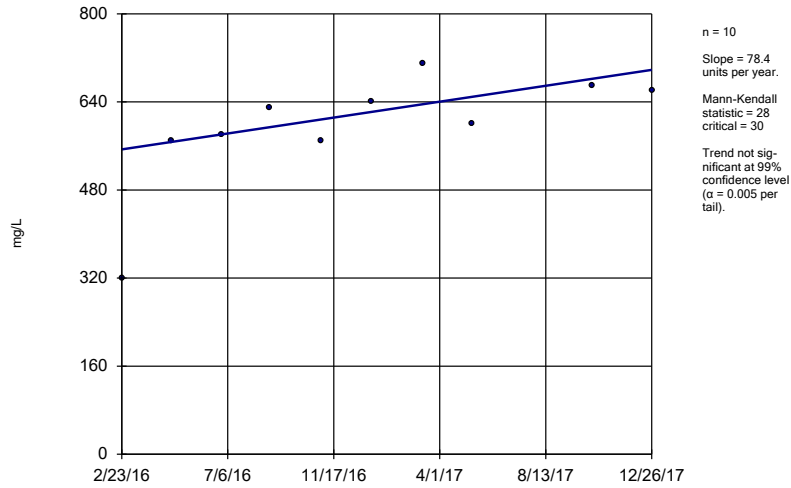
MW-6



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

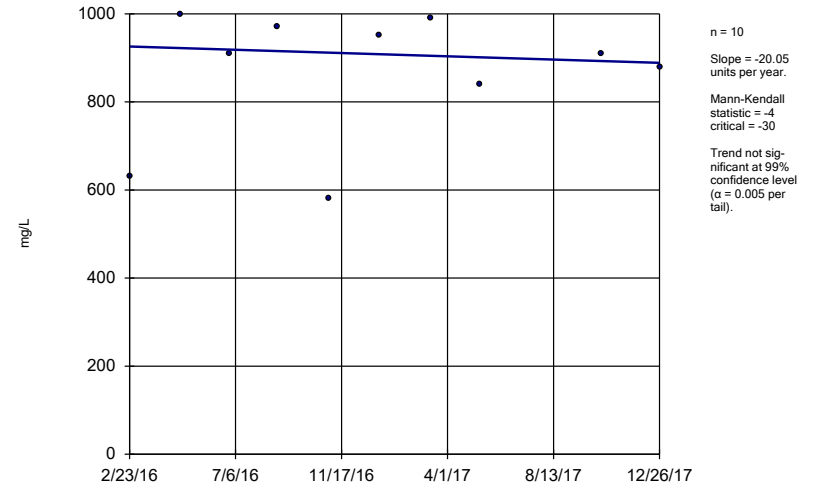
MW-7



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

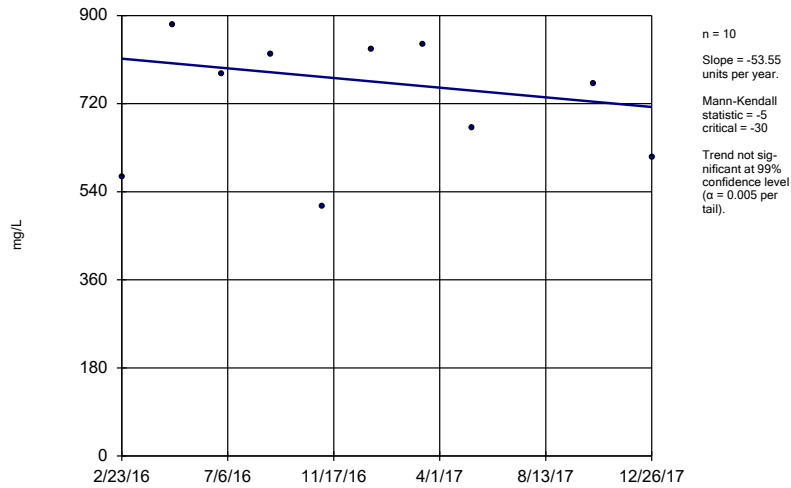
MW-8



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

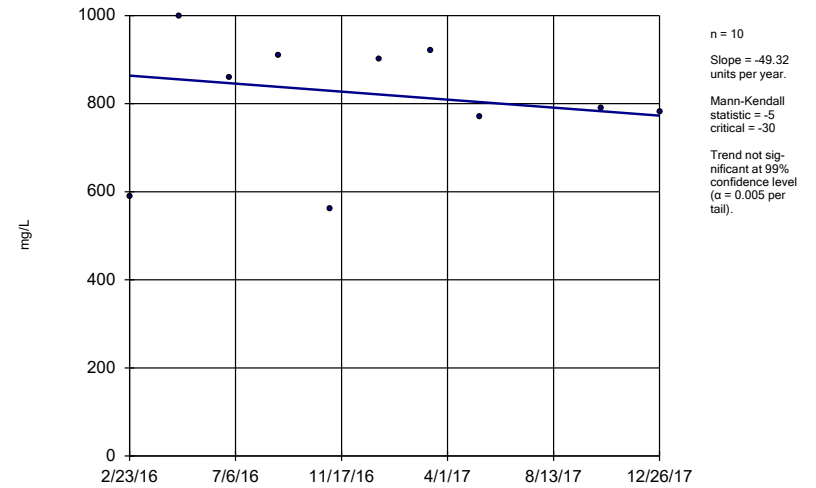
MW-9



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

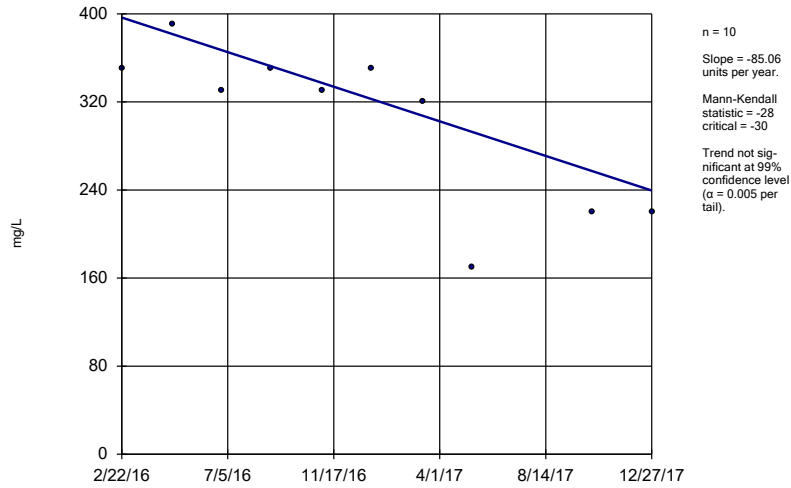
MW-10



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

MW-11

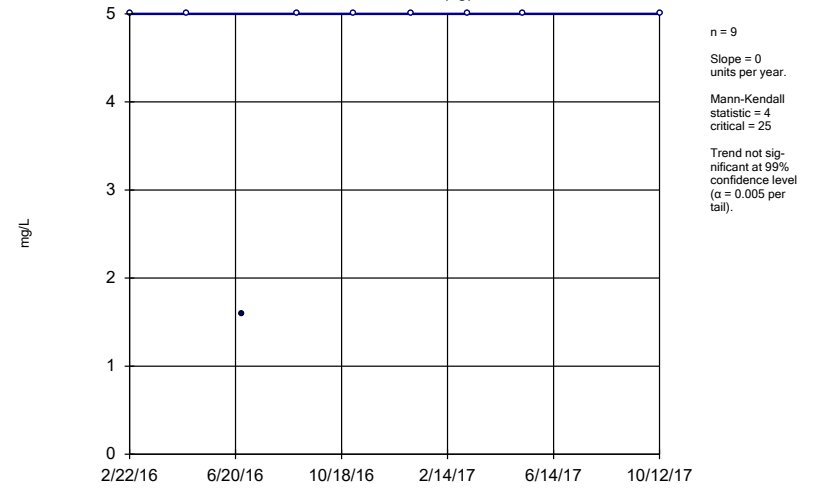


Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Hollow symbols indicate censored values.

Sen's Slope Estimator

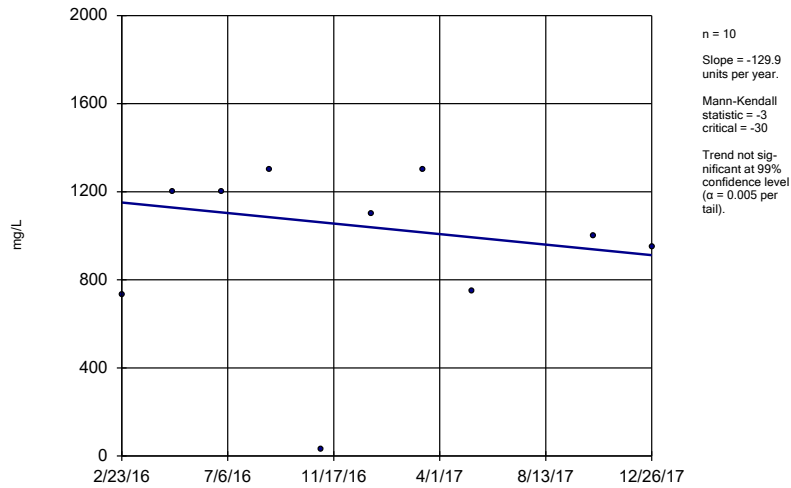
MW-12 (bg)



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

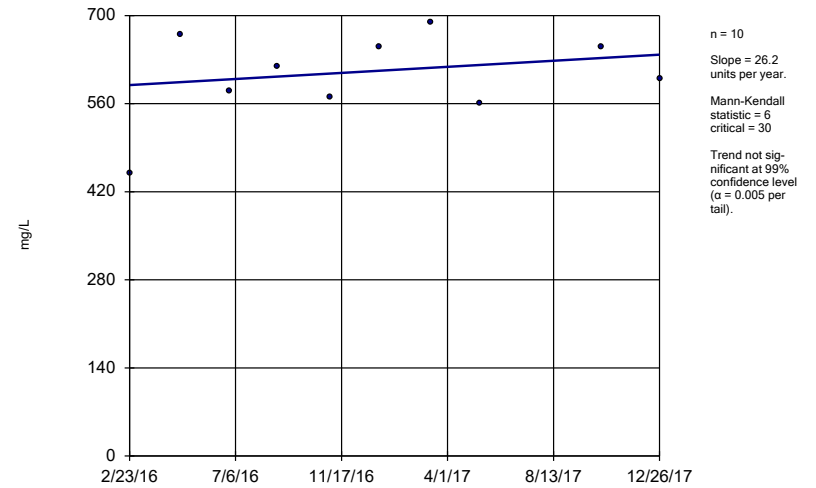
MW-13



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

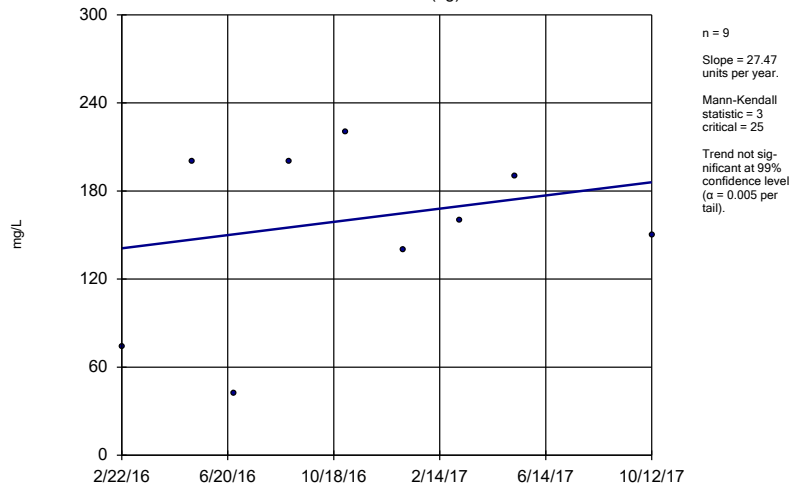
MW-14



Constituent: Sulfate Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

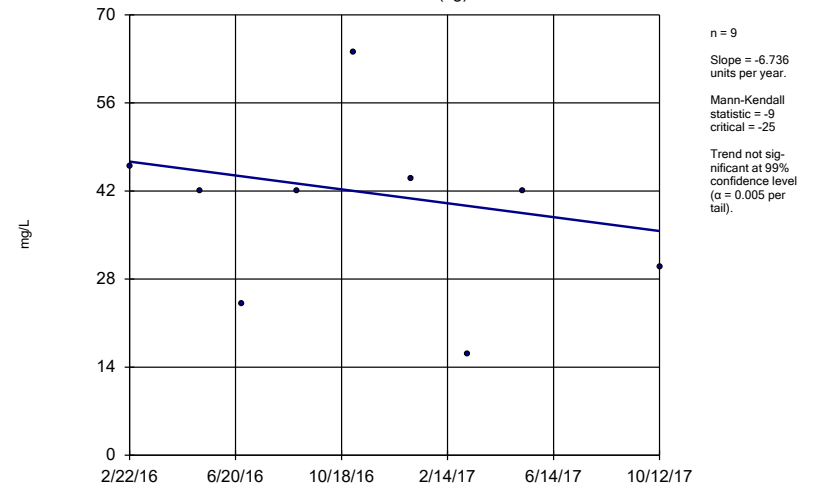
MW-2 (bg)



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

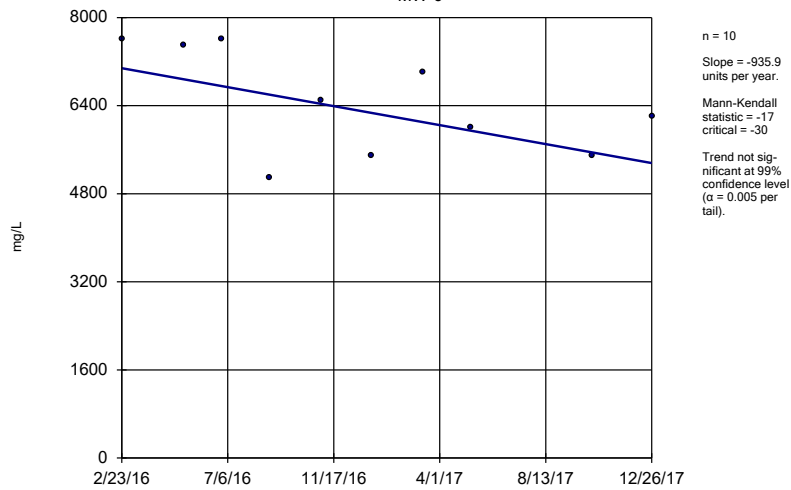
MW-3 (bg)



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

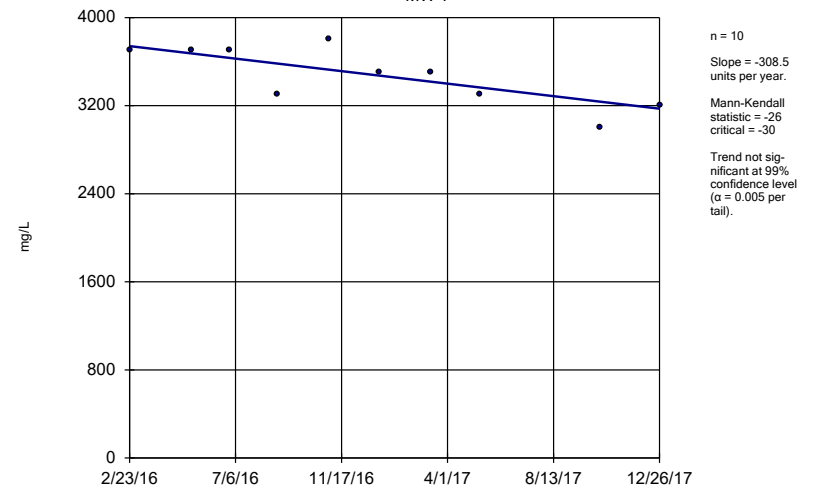
MW-6



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

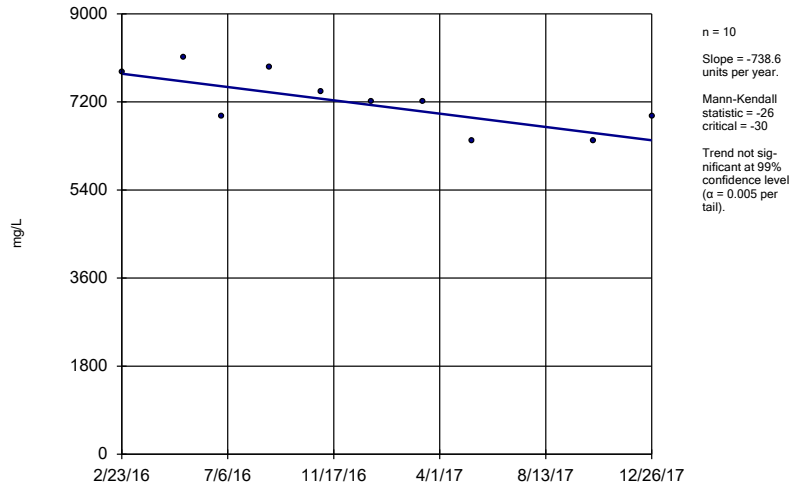
MW-7



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

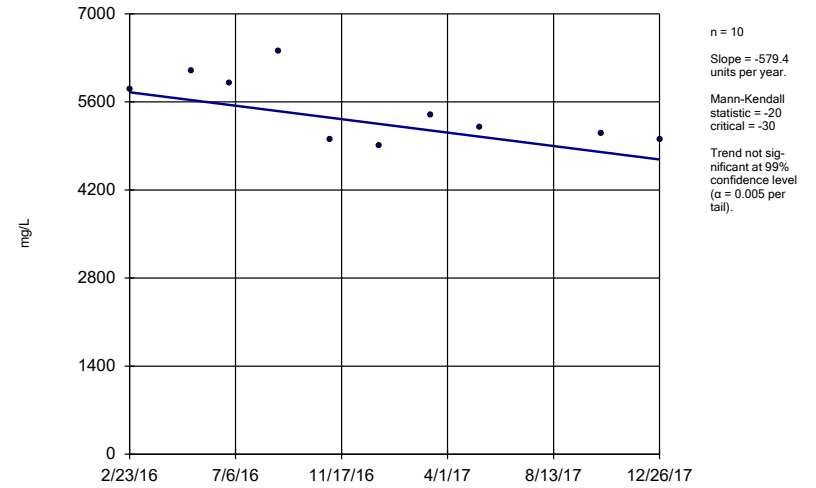
MW-8



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

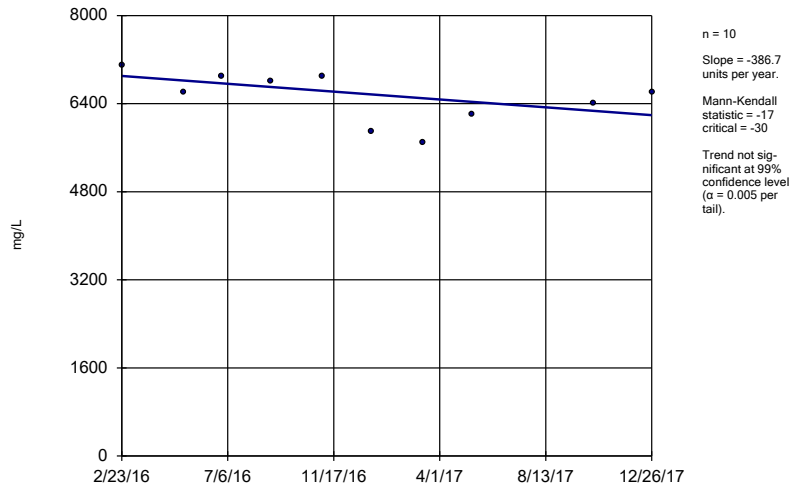
MW-9



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

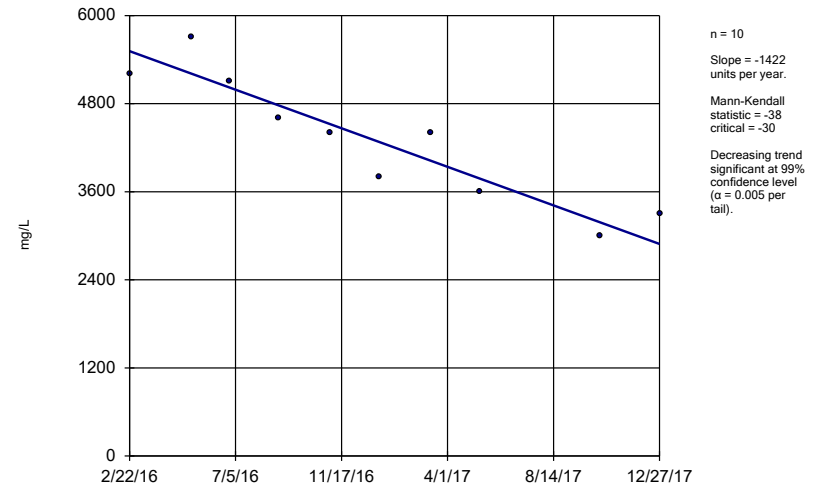
MW-10



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

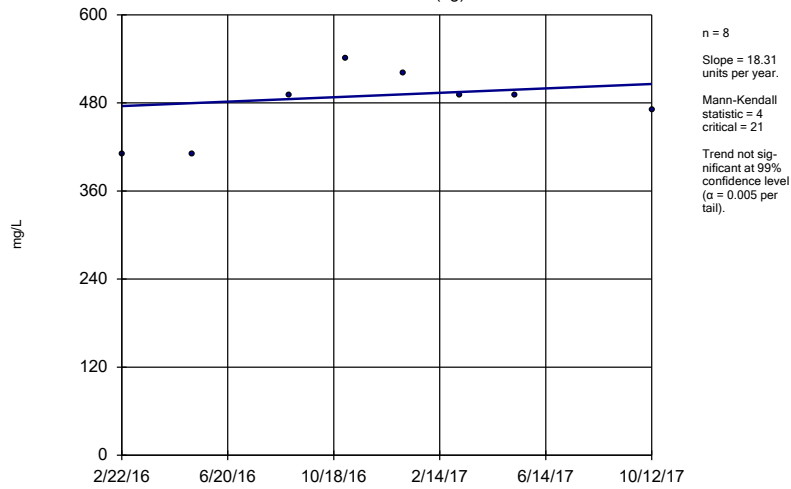
MW-11



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

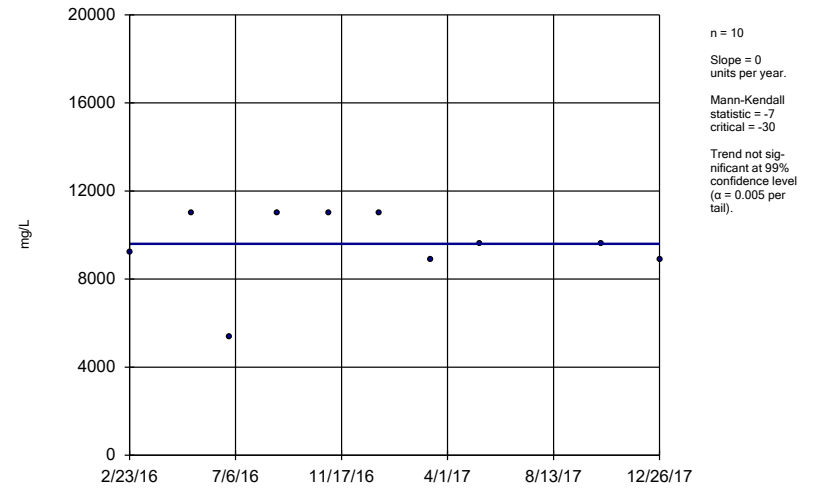
MW-12 (bg)



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

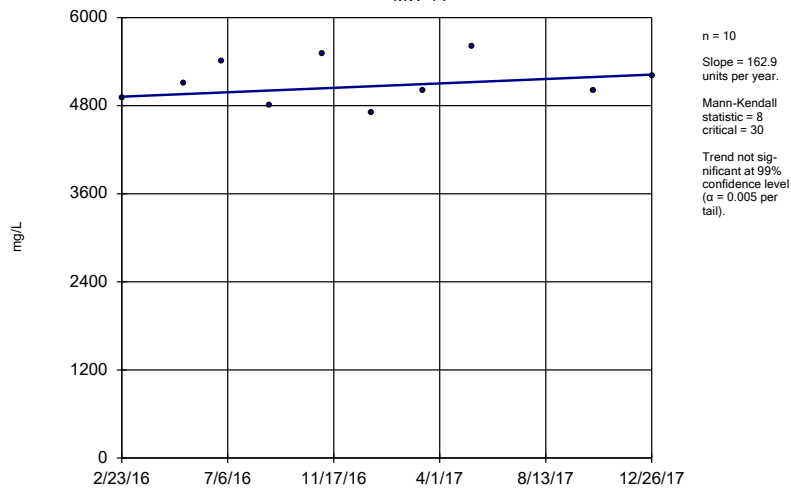
MW-13



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR

Sen's Slope Estimator

MW-14



Constituent: Total Dissolved Solids Analysis Run 1/15/2018 9:12 AM View: Trend Testing
 Plant Smith Client: Southern Company Data: Smith CCR